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## II.

*A Table of the Longitude and Altitude of the Nonagesimal Degree, in  $42^{\circ} 23' 28''$  of North Latitude (the Ellipticity of the Earth being assumed to be  $\frac{1}{300}$ th, and the Obliquity of the Ecliptic  $23^{\circ} 27' 40''$ ), for every Minute of the Right Ascension of the Meridian, — With the Corrections of the Table for a Decrease of  $100''$  in the Obliquity, and of  $1000''$  in the Geographical Latitude.*

BY R. T. PAINE, Esq.

THE corrections were computed for a decrease of  $100''$  in Obliquity, and  $1000''$  in geographical Latitude ; for an increase, the signs of the corrections must be reversed.

By a *decrease* in either Latitude or Obliquity, the Longitude is *increased* if the Right Ascension of the Meridian is between six hours and eighteen hours, and *diminished* if between eighteen hours and six hours.

By a *decrease* in the *Obliquity*, the Altitude is *increased*, if the Longitude is between  $180^{\circ}$  and  $360^{\circ}$ , and *diminished* if between  $0^{\circ}$  and  $180^{\circ}$ .

By a *decrease* in the *Latitude*, the Altitude is *increased*.

\* \* \* The Right Ascension of the Meridian is the sum of the *Apparent* time at the place (reckoned according to the manner of astronomers), and the Sun's Right Ascension ; or of the *Mean* time, reckoned in the same manner, and the Sidereal time.

### EXAMPLE.

What was the Longitude and Altitude of the Nonagesimal, in Boston, in Latitude  $42^{\circ} 20' 38''.1$  North, January 1st, 1831, at  $6^{\text{h}} 22^{\text{m}} 9^{\text{s}}.8$ , A. M., Mean time, or reckoned astronomically, 1830, Dec. 31st,  $18^{\text{h}} 22^{\text{m}} 9^{\text{s}}.8$ , the Sidereal time being  $18^{\text{h}} 41^{\text{m}} 24^{\text{s}}.64$ , and the Obliquity  $23^{\circ} 27' 32''.0$ ?

The A. R. of the Meridian is consequently  $13^{\text{h}} 3^{\text{m}} 34^{\text{s}}.44$ .

	Longitude.			Altitude.		
	$^{\circ}$	$'$	$''$	$^{\circ}$	$'$	$''$
At $13^{\text{h}} 3^{\text{m}}$	173	21	42.9	45	52	21.4
Proportion for $34\frac{4}{5}$ seconds		7	31.1	—	3	24.4
Correction for — $170''$ in Lat.		2	6.5	+	2	23.7
Correction for — $8''$ in Obliq.			7.7	—		0.9
Sum . . . . .	173	31	28	45	51	20

## Longitude and Altitude of the Nonagesimal for the

Argument. A. R. of Mer.		Longitude of the Nonagesimal.				Correction for —100'' in Obliq.	Altitude of the Nonagesimal.				Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	'''		°	'	''	'''		Long.	Alt.	H.	M.
0	0	19	51	0	12	73.5	51	57	40	5	37	—34.0	—639''	+	863''
0	1	20	3	10	12	73.2	52	3	17	5	36	34.3	638	0	0
0	2	20	15	20	12	72.8	52	8	53	5	36	34.6	636	0	1
0	3	20	27	28	12	72.5	52	14	29	5	35	34.9	635	0	2
0	4	20	39	37	12	72.2	52	20	4	5	35	35.2	633	0	3
													633	0	4
0	5	20	51	44	12	71.9	52	25	39	5	35	—35.5	—631	+	865
0	6	21	3	52	12	71.6	52	31	14	5	35	35.8	630	0	5
0	7	21	15	58	12	71.3	52	36	48	5	34	36.0	628	0	6
0	8	21	28	4	12	71.0	52	42	22	5	34	36.3	626	0	7
0	9	21	40	10	12	70.6	52	47	55	5	33	36.6	625	0	8
													625	0	9
0	10	21	52	15	12	70.3	52	53	28	5	33	—36.9	—623	+	867
0	11	22	4	19	12	70.0	52	59	0	5	32	37.2	621	0	10
0	12	22	16	23	12	69.7	53	4	32	5	32	37.5	620	0	11
0	13	22	28	26	12	69.4	53	10	3	5	31	37.8	618	0	12
0	14	22	40	29	12	69.0	53	15	34	5	31	38.2	616	0	13
													616	0	14
0	15	22	52	31	12	68.7	53	21	5	5	31	—38.5	—615	+	869
0	16	23	4	33	12	68.4	53	26	34	5	30	38.9	613	0	15
0	17	23	16	34	12	68.0	53	32	4	5	29	39.3	612	0	16
0	18	23	28	35	12	67.7	53	37	33	5	29	39.6	610	0	17
0	19	23	40	35	12	67.4	53	43	1	5	28	39.9	608	0	18
													608	0	19
0	20	23	52	35	11	67.0	53	48	29	5	28	—40.3	—607	+	871
0	21	24	4	34	11	66.7	53	53	56	5	27	40.7	605	0	20
0	22	24	16	33	11	66.4	53	59	23	5	27	41.0	603	0	21
0	23	24	28	31	11	66.0	54	4	49	5	26	41.3	602	0	22
0	24	24	40	29	11	65.7	54	10	15	5	26	41.7	600	0	23
													600	0	24
0	25	24	52	26	11	65.4	54	15	41	5	25	—42.0	—598	+	873
0	26	25	4	23	11	65.0	54	21	6	5	25	42.4	597	0	25
0	27	25	16	19	11	64.7	54	26	30	5	24	42.7	595	0	26
0	28	25	28	16	11	64.4	54	31	54	5	23	43.0	593	0	27
0	29	25	40	11	11	64.0	54	37	17	5	23	43.4	592	0	28
													592	0	29
0	30	25	52	6	11	63.7	54	42	40	5	22	—43.7	—590	+	875
0	31	26	4	1	11	63.4	54	48	2	5	22	44.0	589	0	30
0	32	26	15	55	11	63.0	54	53	23	5	21	44.3	587	0	31
0	33	26	27	49	11	62.7	54	58	44	5	21	44.6	585	0	32
0	34	26	39	43	11	62.4	55	4	5	5	21	44.9	584	0	33
													584	0	34
0	35	26	51	36	11	62.1	55	9	25	5	20	—45.2	—582	+	878
0	36	27	3	28	11	61.8	55	14	44	5	19	45.5	580	0	35
0	37	27	15	21	11	61.5	55	20	3	5	19	45.8	579	0	36
0	38	27	27	13	11	61.2	55	25	21	5	18	46.1	577	0	37
0	39	27	39	4	11	60.9	55	30	39	5	18	46.4	575	0	38
													575	0	39
0	40	27	50	55	11	60.6	55	35	56	5	17	—46.7	—574	+	880
0	41	28	2	46	11	60.3	55	41	12	5	16	47.0	572	0	40
0	42	28	14	37	11	60.0	55	46	28	5	16	47.3	570	0	41
0	43	28	26	27	11	59.7	55	51	44	5	16	47.6	569	0	42
0	44	28	38	16	11	59.4	55	56	58	5	14	47.8	567	0	43
													567	0	44
0	45	28	50	6	11	59.1	56	2	13	5	15	—48.1	—566	+	882
0	46	29	1	55	11	58.8	56	7	26	5	13	48.4	564	0	45
0	47	29	13	43	11	58.5	56	12	39	5	13	48.7	562	0	46
0	48	29	25	32	11	58.2	56	17	52	5	13	49.0	561	0	47
0	49	29	37	19	11	57.9	56	23	3	5	11	49.3	559	0	48
													559	0	49
0	50	29	49	7	11	57.6	56	28	15	5	12	—49.6	—557	+	885
0	51	30	0	54	11	57.3	56	33	25	5	10	49.9	556	0	50
0	52	30	12	41	11	57.0	56	38	35	5	9	50.1	554	0	51
0	53	30	24	28	11	56.7	56	43	44	5	9	50.4	552	0	52
0	54	30	36	14	11	56.4	56	48	53	5	9	50.7	551	0	53
													551	0	54
0	55	30	48	0	11	56.1	56	54	1	5	8	—51.0	—549	+	887
0	56	30	59	46	11	55.8	56	59	9	5	8	51.2	547	0	55
0	57	31	11	32	11	55.6	57	4	15	5	6	51.5	546	0	56
0	58	31	23	17	11	55.3	57	9	22	5	5	51.8	544	0	57
0	59	31	35	3	11	55.0	57	14	27	5	5	52.0	543	0	58
1	0	31	46	47	11	54.7	57	19	32	5	5	52.3	541	1	0

Argument. A. R. of Mer.		Longitude of the Nonagesimal.	Correction for $-100''$ in Obliq.	Altitude of the Nonagesimal.	Correction for $-100''$ in Obliq.	Corrections for $-1000''$ in Latitude.		Argument. A. R. of Mer.
H.	M.					Long.	Alt.	H. M.
1	0	$31^{\circ} 46' 47''$	$-54.7$	$57^{\circ} 19' 32''$	$-52.3$	$-541''$	$+889'$	1 0
1	1	$31^{\circ} 58' 32''$	54.4	$57^{\circ} 24' 37''$	52.6	539	890	1 1
1	2	$32^{\circ} 10' 16''$	54.1	$57^{\circ} 29' 40''$	52.9	538	890	1 2
1	3	$32^{\circ} 22' 0''$	53.8	$57^{\circ} 34' 43''$	53.3	536	891	1 3
1	4	$32^{\circ} 33' 44''$	53.5	$57^{\circ} 39' 46''$	53.6	534	891	1 4
1	5	$32^{\circ} 45' 27''$	$-53.2$	$57^{\circ} 44' 47''$	$-53.9$	$-533$	$+892$	1 5
1	6	$32^{\circ} 57' 10''$	52.9	$57^{\circ} 49' 48''$	54.2	531	892	1 6
1	7	$33^{\circ} 8' 53''$	52.6	$57^{\circ} 54' 49''$	54.5	529	893	1 7
1	8	$33^{\circ} 20' 36''$	52.3	$57^{\circ} 59' 48''$	54.8	528	893	1 8
1	9	$33^{\circ} 32' 18''$	52.1	$58^{\circ} 4' 47''$	55.1	526	894	1 9
1	10	$33^{\circ} 44' 1''$	$-51.8$	$58^{\circ} 9' 45''$	$-55.4$	$-524$	$+894$	1 10
1	11	$33^{\circ} 55' 42''$	51.5	$58^{\circ} 14' 43''$	55.7	523	895	1 11
1	12	$34^{\circ} 7' 24''$	51.2	$58^{\circ} 19' 40''$	56.0	521	895	1 12
1	13	$34^{\circ} 19' 5''$	50.9	$58^{\circ} 24' 36''$	56.3	519	896	1 13
1	14	$34^{\circ} 30' 47''$	50.6	$58^{\circ} 29' 32''$	56.6	518	896	1 14
1	15	$34^{\circ} 42' 28''$	$-50.3$	$58^{\circ} 34' 27''$	$-56.9$	$-516$	$+897$	1 15
1	16	$34^{\circ} 54' 9''$	50.1	$58^{\circ} 39' 21''$	57.1	514	897	1 16
1	17	$35^{\circ} 5' 49''$	49.8	$58^{\circ} 44' 15''$	57.4	513	898	1 17
1	18	$35^{\circ} 17' 30''$	49.5	$58^{\circ} 49' 8''$	57.7	511	898	1 18
1	19	$35^{\circ} 29' 10''$	49.2	$58^{\circ} 54' 0''$	58.0	509	899	1 19
1	20	$35^{\circ} 40' 50''$	$-48.9$	$58^{\circ} 58' 51''$	$-58.3$	$-508$	$+900$	1 20
1	21	$35^{\circ} 52' 30''$	48.7	$59^{\circ} 3' 42''$	58.5	506	900	1 21
1	22	$36^{\circ} 4' 10''$	48.4	$59^{\circ} 8' 32''$	58.8	504	901	1 22
1	23	$36^{\circ} 15' 49''$	48.1	$59^{\circ} 13' 21''$	59.1	503	901	1 23
1	24	$36^{\circ} 27' 28''$	47.8	$59^{\circ} 18' 9''$	59.3	501	902	1 24
1	25	$36^{\circ} 39' 7''$	$-47.5$	$59^{\circ} 22' 57''$	$-59.6$	$-499$	$+902$	1 25
1	26	$36^{\circ} 50' 46''$	47.2	$59^{\circ} 27' 44''$	59.9	498	903	1 26
1	27	$37^{\circ} 2' 25''$	47.0	$59^{\circ} 32' 31''$	60.1	496	903	1 27
1	28	$37^{\circ} 14' 3''$	46.7	$59^{\circ} 37' 16''$	60.4	494	904	1 28
1	29	$37^{\circ} 25' 42''$	46.4	$59^{\circ} 42' 1''$	60.7	493	904	1 29
1	30	$37^{\circ} 37' 20''$	$-46.1$	$59^{\circ} 46' 45''$	$-60.9$	$-491$	$+905$	1 30
1	31	$37^{\circ} 48' 58''$	45.9	$59^{\circ} 51' 29''$	61.2	489	905	1 31
1	32	$38^{\circ} 0' 36''$	45.6	$59^{\circ} 56' 12''$	61.5	488	906	1 32
1	33	$38^{\circ} 12' 14''$	45.3	$60^{\circ} 0' 53''$	61.7	486	906	1 33
1	34	$38^{\circ} 23' 52''$	45.0	$60^{\circ} 5' 35''$	62.0	484	907	1 34
1	35	$38^{\circ} 35' 29''$	$-44.8$	$60^{\circ} 10' 15''$	$-62.3$	$-483$	$+907$	1 35
1	36	$38^{\circ} 47' 7''$	44.5	$60^{\circ} 14' 55''$	62.5	481	908	1 36
1	37	$38^{\circ} 58' 44''$	44.2	$60^{\circ} 19' 34''$	62.8	479	908	1 37
1	38	$39^{\circ} 10' 21''$	44.0	$60^{\circ} 24' 12''$	63.1	478	909	1 38
1	39	$39^{\circ} 21' 58''$	43.7	$60^{\circ} 28' 49''$	63.3	476	909	1 39
1	40	$39^{\circ} 33' 35''$	$-43.5$	$60^{\circ} 33' 26''$	$-63.6$	$-474$	$+910$	1 40
1	41	$39^{\circ} 45' 11''$	43.2	$60^{\circ} 38' 2''$	63.9	473	910	1 41
1	42	$39^{\circ} 56' 48''$	43.0	$60^{\circ} 42' 37''$	64.2	471	911	1 42
1	43	$40^{\circ} 8' 25''$	42.7	$60^{\circ} 47' 11''$	64.4	469	911	1 43
1	44	$40^{\circ} 20' 1''$	42.5	$60^{\circ} 51' 45''$	64.7	468	912	1 44
1	45	$40^{\circ} 31' 37''$	$-42.2$	$60^{\circ} 56' 17''$	$-65.0$	$-466$	$+912$	1 45
1	46	$40^{\circ} 43' 13''$	42.0	$61^{\circ} 0' 49''$	65.3	464	913	1 46
1	47	$40^{\circ} 54' 49''$	41.7	$61^{\circ} 5' 21''$	65.5	463	914	1 47
1	48	$41^{\circ} 6' 25''$	41.5	$61^{\circ} 9' 51''$	65.8	461	914	1 48
1	49	$41^{\circ} 18' 1''$	41.2	$61^{\circ} 14' 21''$	66.1	459	915	1 49
1	50	$41^{\circ} 29' 37''$	$-41.0$	$61^{\circ} 18' 49''$	$-66.3$	$-458$	$+915$	1 50
1	51	$41^{\circ} 41' 13''$	40.7	$61^{\circ} 23' 17''$	66.6	456	916	1 51
1	52	$41^{\circ} 52' 48''$	40.5	$61^{\circ} 27' 45''$	66.8	454	916	1 52
1	53	$42^{\circ} 4' 24''$	40.3	$61^{\circ} 32' 11''$	67.1	453	917	1 53
1	54	$42^{\circ} 15' 59''$	40.0	$61^{\circ} 36' 37''$	67.3	451	917	1 54
1	55	$42^{\circ} 27' 34''$	$-39.8$	$61^{\circ} 41' 1''$	$-67.6$	$-449$	$+918$	1 55
1	56	$42^{\circ} 39' 10''$	39.6	$61^{\circ} 45' 25''$	67.8	448	918	1 56
1	57	$42^{\circ} 50' 45''$	39.3	$61^{\circ} 49' 48''$	68.1	446	919	1 57
1	58	$43^{\circ} 2' 20''$	39.1	$61^{\circ} 54' 11''$	68.3	444	919	1 58
1	59	$43^{\circ} 13' 55''$	38.9	$61^{\circ} 58' 32''$	68.6	442	920	1 59
2	0	$43^{\circ} 25' 30''$	38.7	$62^{\circ} 2' 53''$	68.8	441	920	2 0

## Longitude and Altitude of the Nonagesimal for the

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
2	0	43	25	30	43	25	30	—441'	+920''	2	0
2	1	43	37	5	43	37	13	439	921	2	1
2	2	43	48	39	43	48	32	437	921	2	2
2	3	44	0	14	43	50	15	436	922	2	3
2	4	44	11	49	44	20	7	434	922	2	4
2	5	44	23	23	44	24	24	—432	+923	2	5
2	6	44	34	58	44	28	39	431	923	2	6
2	7	44	46	33	44	32	54	429	924	2	7
2	8	44	58	7	44	37	8	427	925	2	8
2	9	45	9	41	44	41	21	425	925	2	9
2	10	45	21	16	44	45	33	—424	+926	2	10
2	11	45	32	50	44	49	45	422	926	2	11
2	12	45	44	24	45	53	55	420	927	2	12
2	13	45	55	59	45	58	5	419	927	2	13
2	14	46	7	33	46	2	14	417	928	2	14
2	15	46	19	7	46	6	21	—415	+928	2	15
2	16	46	30	41	46	10	28	413	929	2	16
2	17	46	42	15	46	14	35	412	929	2	17
2	18	46	53	49	46	18	40	410	930	2	18
2	19	47	5	24	46	22	44	408	930	2	19
2	20	47	16	58	46	26	48	—407	+931	2	20
2	21	47	28	32	46	30	50	405	931	2	21
2	22	47	40	6	46	34	52	403	932	2	22
2	23	47	51	40	46	38	53	401	932	2	23
2	24	48	3	14	46	42	53	400	933	2	24
2	25	48	14	47	46	46	52	—398	+933	2	25
2	26	48	26	21	46	50	50	396	934	2	26
2	27	48	37	55	46	54	47	394	934	2	27
2	28	48	49	29	46	58	44	393	935	2	28
2	29	49	1	3	46	2	39	391	935	2	29
2	30	49	12	37	46	6	34	—389	+936	2	30
2	31	49	24	11	46	10	27	388	936	2	31
2	32	49	35	45	46	14	20	386	937	2	32
2	33	49	47	19	46	18	12	384	937	2	33
2	34	49	58	53	46	22	3	382	938	2	34
2	35	50	10	27	46	25	53	—381	+938	2	35
2	36	50	22	1	46	29	42	379	939	2	36
2	37	50	33	35	46	33	30	377	939	2	37
2	38	50	45	9	46	37	17	375	940	2	38
2	39	50	56	43	46	41	3	374	940	2	39
2	40	51	8	17	46	44	48	—372	+941	2	40
2	41	51	19	51	46	48	33	370	941	2	41
2	42	51	31	25	46	52	16	368	942	2	42
2	43	51	42	59	46	55	59	367	942	2	43
2	44	51	54	33	46	59	40	365	943	2	44
2	45	52	6	7	46	3	21	—363	+943	2	45
2	46	52	17	41	46	7	0	361	944	2	46
2	47	52	29	15	46	10	39	360	944	2	47
2	48	52	40	49	46	14	17	358	945	2	48
2	49	52	52	23	46	17	53	356	945	2	49
2	50	53	3	58	46	21	29	—354	+946	2	50
2	51	53	15	32	46	25	4	353	946	2	51
2	52	53	27	6	46	28	38	351	947	2	52
2	53	53	38	40	46	32	11	349	947	2	53
2	54	53	50	15	46	35	43	347	948	2	54
2	55	54	1	49	46	39	13	—346	+948	2	55
2	56	54	13	23	46	42	43	344	949	2	56
2	57	54	24	58	46	46	12	342	949	2	57
2	58	54	36	32	46	49	40	340	950	2	58
2	59	54	48	7	46	53	7	339	950	2	59
3	0	54	59	41	46	56	33	337	951	3	0

*Lat. 42° 23' 28" N., (reduced 42° 12' 2''·4), and Obliquity 23° 27' 40". 49*

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
3	0	54	59	41	11	35	—25.7	—81.8	—337''	3	0
3	1	55	11	16	11	35	25.5	82.0	335	3	1
3	2	55	22	51	11	34	25.3	82.2	333	3	2
3	3	55	34	25	11	35	25.1	82.4	332	3	3
3	4	55	46	0	11	35	24.9	82.6	330	3	4
3	5	55	57	35	11	35	—24.7	—82.8	—328	3	5
3	6	56	9	10	11	35	24.5	83.0	326	3	6
3	7	56	20	44	11	34	24.3	83.2	324	3	7
3	8	56	32	19	11	35	24.1	83.4	323	3	8
3	9	56	43	54	11	35	23.9	83.6	321	3	9
3	10	56	55	29	11	35	—23.7	—83.8	—319	3	10
3	11	57	7	4	11	35	23.5	84.0	317	3	11
3	12	57	18	40	11	36	23.3	84.2	316	3	12
3	13	57	30	15	11	35	23.1	84.4	314	3	13
3	14	57	41	50	11	35	22.9	84.6	312	3	14
3	15	57	53	25	11	35	—22.8	—84.7	—310	3	15
3	16	58	5	1	11	36	22.6	84.9	308	3	16
3	17	58	16	36	11	35	22.4	85.1	307	3	17
3	18	58	28	11	11	35	22.2	85.3	305	3	18
3	19	58	39	47	11	36	22.1	85.4	303	3	19
3	20	58	51	23	11	36	—21.9	—85.6	—301	3	20
3	21	59	2	58	11	35	21.7	85.8	299	3	21
3	22	59	14	34	11	36	21.5	86.0	298	3	22
3	23	59	26	10	11	36	21.4	86.1	296	3	23
3	24	59	37	45	11	35	21.2	86.3	294	3	24
3	25	59	49	21	11	36	—21.0	—86.5	—292	3	25
3	26	60	0	57	11	36	20.9	86.6	290	3	26
3	27	60	12	33	11	36	20.7	86.8	289	3	27
3	28	60	24	9	11	36	20.5	87.0	287	3	28
3	29	60	35	46	11	37	20.4	87.1	285	3	29
3	30	60	47	22	11	36	—20.2	—87.3	—283	3	30
3	31	60	58	58	11	36	20.0	87.5	281	3	31
3	32	61	10	34	11	36	19.9	87.6	280	3	32
3	33	61	22	11	11	36	19.7	87.8	278	3	33
3	34	61	33	47	11	36	19.5	88.0	276	3	34
3	35	61	45	24	11	37	—19.4	—88.1	—274	3	35
3	36	61	57	0	11	36	19.2	88.3	272	3	36
3	37	62	8	37	11	37	19.0	88.5	271	3	37
3	38	62	20	14	11	37	18.9	88.6	269	3	38
3	39	62	31	51	11	37	18.7	88.8	267	3	39
3	40	62	43	28	11	37	—18.5	—88.9	—265	3	40
3	41	62	55	5	11	37	18.4	89.1	263	3	41
3	42	63	6	41	11	36	18.2	89.2	261	3	42
3	43	63	18	19	11	38	18.0	89.4	260	3	43
3	44	63	29	56	11	37	17.9	89.5	258	3	44
3	45	63	41	33	11	37	—17.7	—89.7	—256	3	45
3	46	63	53	10	11	37	17.5	89.8	254	3	46
3	47	64	4	48	11	38	17.4	90.0	252	3	47
3	48	64	16	25	11	37	17.2	90.1	250	3	48
3	49	64	28	3	11	38	17.0	90.2	249	3	49
3	50	64	39	40	11	37	—16.9	—90.4	—247	3	50
3	51	64	51	18	11	38	16.7	90.6	245	3	51
3	52	65	2	56	11	38	16.6	90.8	243	3	52
3	53	65	14	34	11	38	16.4	90.9	241	3	53
3	54	65	26	12	11	38	16.3	91.0	239	3	54
3	55	65	37	50	11	38	—16.1	—91.1	—238	3	55
3	56	65	49	28	11	38	15.9	91.2	236	3	56
3	57	66	1	6	11	38	15.8	91.4	234	3	57
3	58	66	12	44	11	28	15.6	91.5	232	3	58
3	59	66	24	22	11	38	15.5	91.7	230	3	59
4	0	66	36	1	11	39	15.3	91.8	228	4	0

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for — 100'' in O. liq.	Altitude of the Nonagesimal.		Correction for — 100'' in Obliq.	Corrections for — 1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'		°	'		Long.	Alt.	H.	M.
4	0	66	36	15.3	68	51	91.8	—225''	+9 6''	4	0
4	1	66	47	15.1	68	53	91.9	226	977	4	1
4	2	66	59	15.0	68	55	92.1	225	977	4	2
4	3	67	10	14.8	68	58	92.2	223	978	4	3
4	4	67	22	14.7	69	0	92.3	221	978	4	4
4	5	67	34	14.5	69	2	92.4	—219	+978	4	5
4	6	67	45	14.4	69	5	92.6	217	979	4	6
4	7	67	57	14.2	69	7	92.7	215	979	4	7
4	8	68	9	14.1	69	9	92.8	213	979	4	8
4	9	68	20	13.9	69	11	92.9	212	980	4	9
4	10	68	32	13.8	69	13	93.1	—210	+980	4	10
4	11	68	44	13.6	69	16	93.2	208	980	4	11
4	12	68	55	13.5	69	18	93.3	206	981	4	12
4	13	69	7	13.4	69	20	93.4	204	981	4	13
4	14	69	19	13.2	69	22	93.5	202	981	4	14
4	15	69	30	13.1	69	24	93.6	—200	+982	4	15
4	16	69	42	12.9	69	26	93.7	199	982	4	16
4	17	69	54	12.8	69	28	93.8	197	982	4	17
4	18	70	5	12.6	69	30	94.0	195	983	4	18
4	19	70	17	12.5	69	32	94.1	193	983	4	19
4	20	70	29	12.4	69	34	94.2	—191	+983	4	20
4	21	70	40	12.2	69	36	94.3	189	984	4	21
4	22	70	52	12.1	69	38	94.4	187	984	4	22
4	23	71	4	11.9	69	40	94.5	186	984	4	23
4	24	71	15	11.8	69	42	94.6	184	984	4	24
4	25	71	27	11.7	69	44	94.7	—182	+985	4	25
4	26	71	39	11.5	69	46	94.8	180	985	4	26
4	27	71	50	11.4	69	48	94.9	178	985	4	27
4	28	72	2	11.3	69	50	95.0	176	986	4	28
4	29	72	14	11.1	69	51	95.1	174	986	4	29
4	30	72	25	11.0	69	53	95.2	—172	+986	4	30
4	31	72	37	10.9	69	55	95.3	170	987	4	31
4	32	72	49	10.7	69	57	95.4	169	987	4	32
4	33	73	0	10.6	69	59	95.5	167	987	4	33
4	34	73	12	10.5	70	0	95.6	165	987	4	34
4	35	73	24	10.3	70	2	95.7	—163	+988	4	35
4	36	73	35	10.2	70	4	95.8	161	988	4	36
4	37	73	47	10.1	70	5	95.9	159	988	4	37
4	38	73	59	9.9	70	7	96.0	157	988	4	38
4	39	74	10	9.8	70	9	96.1	155	989	4	39
4	40	74	22	9.7	70	10	96.2	—153	+989	4	40
4	41	74	34	9.5	70	12	96.3	152	989	4	41
4	42	74	45	9.4	70	14	96.4	150	989	4	42
4	43	74	57	9.3	70	15	96.4	148	990	4	43
4	44	75	9	9.1	70	17	96.5	146	990	4	44
4	45	75	21	9.0	70	18	96.6	—144	+990	4	45
4	46	75	32	8.9	70	20	96.7	142	990	4	46
4	47	75	44	8.7	70	21	96.8	140	991	4	47
4	48	75	56	8.6	70	23	96.9	138	991	4	48
4	49	76	7	8.5	70	24	97.0	136	991	4	49
4	50	76	19	8.3	70	25	97.1	—135	+991	4	50
4	51	76	31	8.2	70	27	97.1	133	992	4	51
4	52	76	42	8.1	70	28	97.2	131	992	4	52
4	53	76	54	7.9	70	30	97.3	129	992	4	53
4	54	77	6	7.8	70	31	97.4	127	992	4	54
4	55	77	18	7.7	70	32	97.4	—125	+993	4	55
4	56	77	29	7.5	70	34	97.5	123	993	4	56
4	57	77	41	7.4	70	35	97.6	121	993	4	57
4	58	77	53	7.3	70	36	97.7	119	993	4	58
4	59	78	4	7.1	70	37	97.7	117	993	4	59
5	0	78	16	7.0	70	39	97.8	116	994	5	0

Argument.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000' in Latitude.		Argument.
A. R. of Mer.								Long.	Alt.	A. R. of Mer.
H.	M.	°	'	''	°	'	''	—116''	+ 994''	H. M.
5	0	78	16	31	70	39	5	114	994	5 0
5	1	78	28	13	70	40	17	112	994	5 1
5	2	78	39	56	70	41	28	110	994	5 2
5	3	78	51	38	70	42	38	108	994	5 3
5	4	79	3	21	70	43	47			5 4
5	5	79	15	4	70	44	54	—98.1	—106	5 5
5	6	79	26	46	70	46	0	95.2	104	5 6
5	7	79	38	29	70	47	5	98.3	102	5 7
5	8	79	50	12	70	48	9	98.3	100	5 8
5	9	80	1	55	70	49	12	98.4	98	5 9
5	10	80	13	38	70	50	13	—93.5	—96	5 10
5	11	80	25	20	70	51	13	98.5	94	5 11
5	12	80	37	3	70	52	12	98.6	93	5 12
5	13	80	48	46	70	53	10	98.6	91	5 13
5	14	81	0	29	70	54	7	98.7	89	5 14
5	15	81	12	13	70	55	2	—98.7	—87	5 15
5	16	81	23	56	70	55	56	98.8	85	5 16
5	17	81	35	39	70	56	49	98.8	83	5 17
5	18	81	47	22	70	57	41	98.9	81	5 18
5	19	81	59	5	70	58	32	98.9	79	5 19
5	20	82	10	49	70	59	21	—98.9	—77	5 20
5	21	82	22	32	71	0	9	99.0	75	5 21
5	22	82	34	15	71	0	56	99.0	73	5 22
5	23	82	45	59	71	1	42	99.1	71	5 23
5	24	82	57	42	71	2	26	99.1	69	5 24
5	25	83	9	25	71	3	10	—99.1	—68	5 25
5	26	83	21	9	71	3	52	99.2	66	5 26
5	27	83	32	52	71	4	33	99.2	64	5 27
5	28	83	44	36	71	5	12	99.2	62	5 28
5	29	83	56	20	71	5	51	99.3	60	5 29
5	30	84	8	3	71	6	28	—99.3	—58	5 30
5	31	84	19	47	71	7	4	99.3	56	5 31
5	32	84	31	30	71	7	39	99.4	54	5 32
5	33	84	43	14	71	8	12	99.4	52	5 33
5	34	84	54	58	71	8	45	99.4	50	5 34
5	35	85	6	41	71	9	16	—99.5	—48	5 35
5	36	85	18	25	71	9	46	99.5	46	5 36
5	37	85	30	9	71	10	14	99.5	44	5 37
5	38	85	41	53	71	10	42	99.6	43	5 38
5	39	85	53	37	71	11	8	99.6	41	5 39
5	40	86	5	21	71	11	33	—99.6	—39	5 40
5	41	86	17	4	71	11	57	99.6	37	5 41
5	42	86	28	48	71	12	20	99.7	35	5 42
5	43	86	40	32	71	12	41	99.7	33	5 43
5	44	86	52	16	71	13	1	99.7	31	5 44
5	45	87	4	0	71	13	20	—99.7	—29	5 45
5	46	87	15	44	71	13	38	99.8	27	5 46
5	47	87	27	28	71	13	54	99.8	25	5 47
5	48	87	39	12	71	14	10	99.8	23	5 48
5	49	87	50	56	71	14	24	99.8	21	5 49
5	50	88	2	40	71	14	37	—99.8	—19	5 50
5	51	88	14	24	71	14	48	99.9	17	5 51
5	52	88	26	8	71	14	59	99.9	16	5 52
5	53	88	37	52	71	15	8	99.9	14	5 53
5	54	88	49	36	71	15	16	99.9	1	5 54
5	55	89	1	20	71	15	22	—99.9	—10	5 55
5	56	89	13	4	71	15	28	100.0	8	5 56
5	57	89	24	48	71	15	32	100.0	6	5 57
5	58	89	36	32	71	15	35	100.0	4	5 58
5	59	89	48	16	71	15	37	100.0	2	5 59
6	0	90	00	00	71	15	38	100.0	0	6 0



Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for — 100' in Obliq.	Altitude of the Nonagesimal.		Correction for — 00' in Obliq.	Corrections for — 1000' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
6	0	90	0	0	71	15	38	+100.0	+1000''	6	0
6	1	90	11	44	71	15	37	100.0	2	6	1
6	2	90	23	28	71	15	35	100.0	4	6	2
6	3	90	35	12	71	15	32	100.0	6	6	3
6	4	90	46	56	71	15	28	100.0	8	6	4
6	5	90	58	40	71	15	22	— 99.9	+10	6	5
6	6	91	10	24	71	15	16	— 99.9	12	6	6
6	7	91	22	8	71	15	8	— 99.9	14	6	7
6	8	91	33	52	71	14	59	— 99.9	16	6	8
6	9	91	45	36	71	14	48	— 99.9	17	6	9
6	10	91	57	20	71	14	37	— 99.8	+19	6	10
6	11	92	9	4	71	14	24	— 99.8	21	6	11
6	12	92	20	48	71	14	10	— 99.8	23	6	12
6	13	92	32	32	71	13	54	— 99.8	25	6	13
6	14	92	44	16	71	13	38	— 99.8	27	6	14
6	15	92	56	0	71	13	20	— 99.7	+29	6	15
6	16	93	7	44	71	13	1	— 99.7	31	6	16
6	17	93	19	23	71	12	41	— 99.7	33	6	17
6	18	93	31	12	71	12	20	— 99.7	35	6	18
6	19	93	42	56	71	11	57	— 99.6	37	6	19
6	20	93	54	40	71	11	33	— 99.6	+39	6	20
6	21	94	6	23	71	11	8	— 99.6	41	6	21
6	22	94	18	7	71	10	42	— 99.6	43	6	22
6	23	94	29	51	71	10	14	— 99.5	44	6	23
6	24	94	41	35	71	9	46	— 99.5	46	6	24
6	25	94	53	19	71	9	16	— 99.5	+48	6	25
6	26	95	5	2	71	8	45	— 99.4	50	6	26
6	27	95	16	46	71	8	12	— 99.4	52	6	27
6	28	95	28	30	71	7	39	— 99.4	54	6	28
6	29	95	40	13	71	7	4	— 99.3	56	6	29
6	30	95	51	57	71	6	28	— 99.3	+58	6	30
6	31	96	3	41	71	5	51	— 99.3	60	6	31
6	32	96	15	24	71	5	12	— 99.2	62	6	32
6	33	96	27	8	71	4	33	— 99.2	64	6	33
6	34	96	38	51	71	3	52	— 99.2	66	6	34
6	35	96	50	35	71	3	10	— 99.1	+68	6	35
6	36	97	2	18	71	2	26	— 99.1	69	6	36
6	37	97	14	2	71	1	42	— 99.1	71	6	37
6	38	97	25	45	71	0	56	— 99.0	73	6	38
6	39	97	37	28	71	0	9	— 99.0	75	6	39
6	40	97	49	12	70	59	21	— 98.9	+77	6	40
6	41	98	0	55	70	58	32	— 98.9	79	6	41
6	42	98	12	38	70	57	41	— 98.9	81	6	42
6	43	98	24	21	70	56	49	— 98.8	83	6	43
6	44	98	36	4	70	55	56	— 98.8	85	6	44
6	45	98	47	48	70	55	2	— 98.7	+87	6	45
6	46	98	59	31	70	54	7	— 98.7	89	6	46
6	47	99	11	14	70	53	10	— 98.6	91	6	47
6	48	99	22	57	70	52	12	— 98.6	93	6	48
6	49	99	34	40	70	51	13	— 98.5	94	6	49
6	50	99	46	23	70	50	13	— 98.5	+96	6	50
6	51	99	58	5	70	49	12	— 98.4	98	6	51
6	52	100	9	48	70	48	9	— 98.3	100	6	52
6	53	100	21	31	70	47	5	— 98.3	102	6	53
6	54	100	33	14	70	46	0	— 98.2	104	6	54
6	55	100	44	56	70	44	54	— 98.1	+106	6	55
6	56	100	56	39	70	43	47	— 98.1	108	6	56
6	57	101	8	22	70	42	38	— 98.0	110	6	57
6	58	101	20	4	70	41	28	— 97.9	112	6	58
6	59	101	31	47	70	40	17	— 97.9	114	6	59
7	0	101	43	29	70	39	5	— 97.8	116	7	0

*Lat. 42° 23' 28" N. (reduced 42° 12' 2".4), and Obliquity 23° 27' 40". 53*

Argument.		Longitude of the Nonagesimal.	Correction for — 100'' in Obliq.	Altitude of the Nonagesimal.	Correction for — 100'' in Obliq.	Corrections for — 1000'' in Latitude.		Argument.	
A. R. of Mer.						Long.	Alt.	A. R. of Mer.	
H. M.								H. M.	
7 0		101 43 29	+ 7.0	70 39 5	— 97.8	+ 116''	+ 994''	7 0	
7 1		101 55 11	7.1	70 37 51	97.7	117	993	7 1	
7 2		102 6 54	7.3	70 36 37	97.7	119	993	7 2	
7 3		102 18 36	7.4	70 35 21	97.6	121	993	7 3	
7 4		102 30 18	7.5	70 34 4	97.5	123	993	7 4	
7 5		102 42 0	+ 7.7	70 32 46	— 97.4	+ 125	+ 993	7 5	
7 6		102 53 42	7.8	70 31 26	97.4	127	992	7 6	
7 7		103 5 24	7.9	70 30 6	97.3	129	992	7 7	
7 8		103 17 6	8.1	70 28 44	97.2	131	992	7 8	
7 9		103 28 48	8.2	70 27 21	97.1	133	992	7 9	
7 10		103 40 30	+ 8.3	70 25 57	— 97.1	+ 135	+ 991	7 10	
7 11		103 52 12	8.5	70 24 32	97.0	136	991	7 11	
7 12		104 3 54	8.6	70 23 5	96.9	138	991	7 12	
7 13		104 15 36	8.7	70 21 37	96.8	140	991	7 13	
7 14		104 27 17	8.9	70 20 9	96.7	142	990	7 14	
7 15		104 38 59	+ 9.0	70 18 39	— 96.6	+ 144	+ 990	7 15	
7 16		104 50 40	9.1	70 17 7	96.5	146	990	7 16	
7 17		105 2 22	9.3	70 15 35	96.4	148	990	7 17	
7 18		105 14 3	9.4	70 14 2	96.4	150	989	7 18	
7 19		105 25 44	9.5	70 12 27	96.3	152	989	7 19	
7 20		105 37 26	+ 9.7	70 10 51	— 96.2	+ 153	+ 989	7 20	
7 21		105 49 7	9.8	70 9 14	96.1	155	989	7 21	
7 22		106 0 48	9.9	70 7 36	96.0	157	988	7 22	
7 23		106 12 29	10.1	70 5 56	95.9	159	988	7 23	
7 24		106 24 10	10.2	70 4 16	95.8	161	988	7 24	
7 25		106 35 51	+ 10.3	70 2 34	— 95.7	+ 163	+ 988	7 25	
7 26		106 47 32	10.5	70 0 51	95.6	165	987	7 26	
7 27		106 59 13	10.6	69 59 7	95.5	167	987	7 27	
7 28		107 10 53	10.7	69 57 21	95.4	169	987	7 28	
7 29		107 22 34	10.9	69 55 35	95.3	170	987	7 29	
7 30		107 34 15	+ 11.0	69 53 47	— 95.2	+ 172	+ 986	7 30	
7 31		107 45 55	11.1	69 51 59	95.1	174	986	7 31	
7 32		107 57 36	11.3	69 50 9	95.0	176	986	7 32	
7 33		108 9 16	11.4	69 48 18	94.9	178	985	7 33	
7 34		108 20 56	11.5	69 46 26	94.8	180	985	7 34	
7 35		108 32 37	+ 11.7	69 44 32	— 94.7	+ 182	+ 985	7 35	
7 36		108 44 17	11.8	69 42 53	94.6	184	984	7 36	
7 37		108 55 57	11.9	69 40 42	94.5	186	984	7 37	
7 38		109 7 37	12.1	69 38 45	94.3	187	984	7 38	
7 39		109 19 17	12.2	69 36 47	94.2	189	984	7 39	
7 40		109 30 57	+ 12.4	69 34 48	— 94.1	+ 191	+ 983	7 40	
7 41		109 42 37	12.5	69 32 48	94.0	193	983	7 41	
7 42		109 54 17	12.6	69 30 46	93.8	195	983	7 42	
7 43		110 5 56	12.8	69 28 44	93.7	197	982	7 43	
7 44		110 17 36	12.9	69 26 40	93.6	199	982	7 44	
7 45		110 29 15	+ 13.1	69 24 35	— 93.5	+ 200	+ 982	7 45	
7 46		110 40 55	13.2	69 22 29	93.4	202	981	7 46	
7 47		110 52 34	13.4	69 20 22	93.3	204	981	7 47	
7 48		111 4 14	13.5	69 18 14	93.2	206	981	7 48	
7 49		111 15 53	13.6	69 16 4	93.1	208	980	7 49	
7 50		111 27 32	+ 13.8	69 13 54	— 92.9	+ 210	+ 980	7 50	
7 51		111 39 11	13.9	69 11 42	92.8	212	980	7 51	
7 52		111 50 50	14.1	69 9 29	92.7	213	979	7 52	
7 53		112 2 29	14.2	69 7 16	92.6	215	979	7 53	
7 54		112 14 8	14.4	69 5 1	92.5	217	979	7 54	
7 55		112 25 47	+ 14.5	69 2 44	— 92.4	+ 219	+ 978	7 55	
7 56		112 37 25	14.7	69 0 27	92.3	221	978	7 56	
7 57		112 49 4	14.8	68 58 9	92.2	223	978	7 57	
7 58		113 0 43	15.0	68 55 49	92.1	225	977	7 58	
7 59		113 12 21	15.1	68 53 29	92.0	226	977	7 59	
8 0		113 24 0	15.3	68 51 7	91.8	228	976	8 0	

Argument.		Longitude		Correction		Altitude		Correction		Corrections for		Argument.		
A. R. of Mer.		of the Nonagesimal.		for — 100''		of the Nonagesimal.		for — 100''		— 1000'' in Latitude.		A. R. of Mer.		
H.	M.	°	'			°	'			Long.	Alt.	H.	M.	
8	0	113	24	0	11 38	+15.3	68	51	7	—91.8	+228''	+976''	8	0
8	1	113	35	38	11 38	15.5	68	48	44	91.7	230	976	8	1
8	2	113	47	16	11 38	15.6	68	46	20	91.5	232	976	8	2
8	3	113	58	54	11 38	15.8	68	43	55	91.4	234	975	8	3
8	4	114	10	32	11 39	15.9	68	41	29	91.2	236	975	8	4
8	5	114	22	11	11 38	+16.1	68	39	1	—91.1	+238	+975	8	5
8	6	114	33	49	11 37	16.3	68	36	33	91.0	239	974	8	6
8	7	114	45	26	11 37	16.4	68	34	4	90.9	241	974	8	7
8	8	114	57	4	11 38	16.6	68	31	33	90.8	243	973	8	8
8	9	115	8	42	11 38	16.7	68	29	1	90.6	245	973	8	9
8	10	115	20	20	11 37	+16.9	68	26	28	—90.4	+247	+973	8	10
8	11	115	31	57	11 37	17.0	68	23	55	90.2	249	972	8	11
8	12	115	43	35	11 37	17.2	68	21	20	90.1	250	972	8	12
8	13	115	55	12	11 38	17.4	68	18	43	90.0	252	972	8	13
8	14	116	6	50	11 37	17.5	68	16	6	89.8	254	971	8	14
8	15	116	18	27	11 37	+17.7	68	13	28	—89.7	+256	+971	8	15
8	16	116	30	4	11 38	17.9	68	10	49	89.5	258	970	8	16
8	17	116	41	42	11 37	18.0	68	8	8	89.4	260	970	8	17
8	18	116	53	19	11 37	18.2	68	5	27	89.2	261	970	8	18
8	19	117	4	56	11 37	18.4	68	2	44	89.1	263	969	8	19
8	20	117	16	33	11 36	+18.5	68	0	1	—88.9	+265	+969	8	20
8	21	117	28	9	11 37	18.7	67	57	16	88.8	267	968	8	21
8	22	117	39	46	11 37	18.9	67	54	30	88.6	269	968	8	22
8	23	117	51	23	11 37	19.0	67	51	43	88.5	271	967	8	23
8	24	118	3	0	11 36	19.2	67	48	55	88.3	272	967	8	24
8	25	118	14	36	11 37	+19.4	67	46	6	—88.1	+274	+967	8	25
8	26	118	26	13	11 36	19.5	67	43	16	88.0	276	966	8	26
8	27	118	37	49	11 37	19.7	67	40	25	87.8	278	966	8	27
8	28	118	49	26	11 36	19.9	67	37	33	87.6	280	965	8	28
8	29	119	1	2	11 36	20.0	67	34	39	87.5	281	965	8	29
8	30	119	12	38	11 37	+20.2	67	31	45	—87.3	+283	+964	8	30
8	31	119	24	15	11 36	20.4	67	28	50	87.1	285	964	8	31
8	32	119	35	51	11 36	20.5	67	25	53	87.0	287	964	8	32
8	33	119	47	27	11 36	20.7	67	22	56	86.8	289	963	8	33
8	34	119	59	3	11 36	20.9	67	19	57	86.6	290	963	8	34
8	35	120	10	39	11 36	+21.0	67	16	57	—86.5	+292	+962	8	35
8	36	120	22	15	11 35	21.2	67	13	57	86.3	294	962	8	36
8	37	120	33	50	11 36	21.4	67	10	55	86.1	296	961	8	37
8	38	120	45	26	11 36	21.5	67	7	52	86.0	299	961	8	38
8	39	120	57	2	11 36	21.7	67	4	49	85.8	299	961	8	39
8	40	121	8	38	11 35	+21.9	67	1	44	—85.6	+301	+960	8	40
8	41	121	20	13	11 36	22.1	66	58	38	85.4	303	960	8	41
8	42	121	31	49	11 35	22.2	66	55	31	85.3	305	959	8	42
8	43	121	43	24	11 35	22.4	66	52	23	85.1	307	959	8	43
8	44	121	54	59	11 36	22.6	66	49	14	84.9	308	958	8	44
8	45	122	6	35	11 35	+22.8	66	46	5	—84.7	+310	+958	8	45
8	46	122	18	10	11 35	22.9	66	42	54	84.6	312	957	8	46
8	47	122	29	45	11 36	23.1	66	39	42	84.4	314	957	8	47
8	48	122	41	21	11 35	23.3	66	36	29	84.2	316	956	8	48
8	49	122	52	56	11 35	23.5	66	33	14	84.0	317	956	8	49
8	50	123	4	31	11 35	+23.7	66	29	59	—83.8	+319	+956	8	50
8	51	123	16	6	11 35	23.9	66	26	43	83.6	321	955	8	51
8	52	123	27	41	11 35	24.1	66	23	26	83.4	323	955	8	52
8	53	123	39	16	11 35	24.3	66	20	8	83.2	324	954	8	53
8	54	123	50	51	11 34	24.5	66	16	49	83.0	326	954	8	54
8	55	124	2	25	11 35	+24.7	66	13	29	—82.8	+328	+953	8	55
8	56	124	14	0	11 35	24.9	66	10	8	82.6	330	953	8	56
8	57	124	25	35	11 35	25.1	66	6	46	82.4	332	952	8	57
8	58	124	37	10	11 34	25.3	66	3	23	82.2	333	952	8	58
8	59	124	48	44	11 35	25.5	65	59	58	82.0	335	951	8	59
9	0	125	0	19	11 35	25.7	65	56	33	81.8	337	951	9	0

Argument.		Longitude		Correction for — 100'' in Obliq.	Altitude		Correction for — 100'' in Obliq.	Corrections for — 1000' in Latitude.		Argument.		
A. R. of Mer.		of the Nonagesimal.			of the Nonagesimal.			A. R. of Mer.				
H.	M.	°	'		°	'		Long.	Alt.	H.	M.	
9	0	125	0 19	+25.7	65	56 33	3 26	— 81.8	+337''	+951''	9	0
9	1	125	11 53	25.9	65	53 7	3 26	81.6	339	950	9	1
9	2	125	23 28	26.1	65	49 40	3 27	81.4	340	950	9	2
9	3	125	35 2	26.3	65	46 12	3 28	81.2	342	949	9	3
9	4	125	46 37	26.5	65	42 43	3 29	81.0	344	949	9	4
9	5	125	58 11	+26.6	65	39 13	3 30	— 80.8	+346	+948	9	5
9	6	126	9 45	26.8	65	35 43	3 30	80.7	347	948	9	6
9	7	126	21 20	27.0	65	32 11	3 32	80.5	349	947	9	7
9	8	126	32 54	27.2	65	28 38	3 33	80.3	351	947	9	8
9	9	126	44 28	27.4	65	25 4	3 34	80.1	353	946	9	9
9	10	126	56 3	+27.6	65	21 29	3 35	— 79.9	+354	+946	9	10
9	11	127	7 37	27.8	65	17 53	3 36	79.7	356	945	9	11
9	12	127	19 11	28.0	65	14 17	3 36	79.5	358	945	9	12
9	13	127	30 45	28.2	65	10 39	3 38	79.3	360	944	9	13
9	14	127	42 19	28.4	65	7 0	3 39	79.1	361	944	9	14
9	15	127	53 53	+28.6	65	3 21	3 39	— 78.9	+363	+943	9	15
9	16	128	5 27	28.8	64	59 40	3 41	78.7	365	943	9	16
9	17	128	17 1	29.0	64	55 59	3 41	78.5	367	942	9	17
9	18	128	28 35	29.3	64	52 16	3 43	78.3	368	942	9	18
9	19	128	40 9	29.5	64	48 33	3 43	78.0	370	941	9	19
9	20	128	51 43	+29.7	64	44 48	3 45	— 77.8	+372	+941	9	20
9	21	129	3 17	29.9	64	41 3	3 45	77.6	374	940	9	21
9	22	129	14 51	30.1	64	37 17	3 46	77.4	375	940	9	22
9	23	129	26 25	30.3	64	33 30	3 47	77.2	377	939	9	23
9	24	129	37 59	30.5	64	29 42	3 48	77.0	379	939	9	24
9	25	129	49 33	+30.7	64	25 53	3 49	— 76.8	+381	+938	9	25
9	26	130	1 7	31.0	64	22 3	3 50	76.5	382	938	9	26
9	27	130	12 41	31.2	64	18 12	3 51	76.3	384	937	9	27
9	28	130	24 15	31.4	64	14 20	3 52	76.1	386	937	9	28
9	29	130	35 49	31.6	64	10 27	3 53	75.9	388	936	9	29
9	30	130	47 23	+31.9	64	6 34	3 55	— 75.6	+389	+936	9	30
9	31	130	58 57	32.1	64	2 39	3 55	75.4	391	935	9	31
9	32	131	10 31	32.3	63	58 44	3 55	75.2	393	935	9	32
9	33	131	22 5	32.5	63	54 47	3 57	75.0	394	934	9	33
9	34	131	33 39	32.8	63	50 50	3 57	74.7	396	934	9	34
9	35	131	45 13	+33.0	63	46 52	3 58	— 74.5	+398	+933	9	35
9	36	131	56 47	33.2	63	42 53	3 59	74.3	400	933	9	36
9	37	132	8 20	33.4	63	38 53	4 0	74.1	401	932	9	37
9	38	132	19 54	33.7	63	34 52	4 1	73.8	403	932	9	38
9	39	132	31 28	33.9	63	30 50	4 2	73.6	405	931	9	39
9	40	132	43 2	+34.1	63	26 48	4 2	— 73.4	+407	+931	9	40
9	41	132	54 37	34.3	63	22 44	4 4	73.2	408	930	9	41
9	42	133	6 11	34.6	63	18 40	4 4	72.9	410	930	9	42
9	43	133	17 45	34.8	63	14 35	4 5	72.7	412	929	9	43
9	44	133	29 19	35.0	63	10 28	4 7	72.5	413	929	9	44
9	45	133	40 53	+35.2	63	6 21	4 7	— 72.3	+415	+928	9	45
9	46	133	52 27	35.5	63	2 14	4 7	72.0	417	928	9	46
9	47	134	4 1	35.7	62	58 5	4 9	71.8	419	927	9	47
9	48	134	15 36	35.9	62	53 55	4 10	71.6	420	927	9	48
9	49	134	27 10	36.1	62	49 45	4 10	71.4	422	926	9	49
9	50	134	38 44	+36.4	62	45 33	4 12	— 71.1	+424	+926	9	50
9	51	134	50 19	36.6	62	41 21	4 12	70.9	425	925	9	51
9	52	135	1 53	36.8	62	37 8	4 13	70.7	427	925	9	52
9	53	135	13 28	37.0	62	32 54	4 14	70.4	429	924	9	53
9	54	135	25 2	37.3	62	28 39	4 15	70.2	431	923	9	54
9	55	135	36 37	+37.5	62	24 24	4 15	— 70.0	+432	+923	9	55
9	56	135	48 11	37.7	62	20 7	4 17	69.7	434	922	9	56
9	57	135	59 46	37.9	62	15 50	4 17	69.5	436	922	9	57
9	58	136	11 21	38.2	62	11 32	4 18	69.3	437	921	9	58
9	59	136	22 55	38.4	62	7 13	4 19	69.0	439	921	9	59
10	0	136	34 30	38.7	62	2 53	4 20	68.8	441	920	10	0

Argument.		Longitude of the Nonagesimal.		Correction for — 100' in Obliq.	Altitude of the Nonagesimal.		Correction for — 100' in Obliq.	Corrections for — 1000' in Latitude.		Argument.
A. R. of Mer.	H. M.	°	'	''	°	'	''	Long.	Alt.	A. R. of Mer.
10 0		136	34	30		62	2	53	+441''	10 0
10 1		136	46	5		61	58	32	442	10 1
10 2		136	57	40		61	54	11	444	10 2
10 3		137	9	15		61	49	48	446	10 3
10 4		137	20	50		61	45	25	448	10 4
10 5		137	32	6		61	41	1	+449	10 5
10 6		137	44	1		61	36	37	451	10 6
10 7		137	55	36		61	32	11	453	10 7
10 8		138	7	12		61	27	45	454	10 8
10 9		138	18	47		6	23	17	456	10 9
10 10		138	30	23		61	18	49	+458	10 10
10 11		138	41	59		61	14	21	459	10 11
10 12		138	53	35		61	9	51	461	10 12
10 13		139	5	11		61	5	21	463	10 13
10 14		139	16	47		61	0	49	464	10 14
10 15		139	28	23		60	56	17	+466	10 15
10 16		139	39	59		60	51	45	468	10 16
10 17		139	51	36		60	47	11	469	10 17
10 18		140	3	12		60	42	37	471	10 18
10 19		140	14	49		60	38	2	473	10 19
10 20		140	26	25		60	33	26	+474	10 20
10 21		140	38	2		60	28	49	476	10 21
10 22		140	49	39		60	24	12	478	10 22
10 23		141	1	16		60	19	34	479	10 23
10 24		141	12	53		60	14	55	481	10 24
10 25		141	24	31		60	10	15	+483	10 25
10 26		141	36	8		60	5	35	484	10 26
10 27		141	47	46		60	0	53	486	10 27
10 28		141	59	24		59	56	12	488	10 28
10 29		142	11	2		59	51	29	489	10 29
10 30		142	22	40		59	46	45	+491	10 30
10 31		142	34	18		59	42	1	493	10 31
10 32		142	45	57		59	37	16	494	10 32
10 33		142	57	35		59	32	31	496	10 33
10 34		143	9	14		59	27	44	498	10 34
10 35		143	20	53		59	22	57	+499	10 35
10 36		143	32	32		59	18	9	501	10 36
10 37		143	44	11		59	13	21	503	10 37
10 38		143	55	51		59	8	32	504	10 38
10 39		144	7	30		59	3	42	506	10 39
10 40		144	19	10		58	58	51	+508	10 40
10 41		144	30	50		58	54	0	509	10 41
10 42		144	42	30		58	49	8	511	10 42
10 43		144	54	11		58	44	15	513	10 43
10 44		145	5	51		58	39	21	514	10 44
10 45		145	17	32		58	34	27	+516	10 45
10 46		145	29	13		58	29	32	518	10 46
10 47		145	40	55		58	24	36	519	10 47
10 48		145	52	36		58	19	40	521	10 48
10 49		146	4	18		58	14	43	523	10 49
10 50		146	16	0		58	9	45	+524	10 50
10 51		146	27	42		58	4	47	526	10 51
10 52		146	39			57	59	48	528	10 52
10 53		146	51	7		57	54	49	529	10 53
10 54		147	2	50		57	49	48	531	10 54
10 55		147	14	33		57	44	47	+533	10 55
10 56		147	26	16		57	39	46	534	10 56
10 57		147	38	0		57	34	43	536	10 57
10 58		147	49	44		57	29	40	538	10 58
10 59		148	1	28		57	24	37	539	10 59
11 0		148	13	13		57	19	32	541	11 0

Argument.		Longitude of the Nonagesimal.		Correction for — 100'' in Obliq.	Altitude of the Nonagesimal.		Correction for — 100'' in Obliq.	Corrections for — 1000'' in Latitude.		Argument.	
A. R. of Mer.										A. R. of Mer.	
H.	M.							Long.	Alt.	H.	M.
11	0	148 13 13	11 45	+54.7	57 19 32	5 5	—52.3	+541''	+889''	11	0
11	1	148 24 58	11 45	55.0	57 14 27	5 5	52.0	543	889	11	1
11	2	148 36 43	11 45	55.3	57 9 22	5 7	51.8	544	888	11	2
11	3	148 48 28	11 46	55.6	57 4 15	5 6	51.5	546	888	11	3
11	4	149 0 14	11 46	55.8	56 59 9	5 8	51.2	547	888	11	4
11	5	149 12 0	11 46	+56.1	56 54 1	5 8	—51.0	+549	+887	11	5
11	6	149 23 46	11 47	56.4	56 48 53	5 9	50.7	551	887	11	6
11	7	149 35 33	11 46	56.7	56 43 44	5 9	50.4	552	886	11	7
11	8	149 47 19	11 47	57.0	56 38 35	5 10	50.1	554	886	11	8
11	9	149 59 6	11 47	57.3	56 33 25	5 10	49.9	556	885	11	9
11	10	150 10 53	11 48	+57.6	56 28 15	5 12	—49.6	+557	+885	11	10
11	11	150 22 41	11 48	57.9	56 23 3	5 12	49.3	559	884	11	11
11	12	150 34 28	11 47	58.2	56 17 52	5 11	49.0	561	884	11	12
11	13	150 46 17	11 49	58.5	56 12 39	5 13	48.7	562	883	11	13
11	14	150 58 5	11 49	58.8	56 7 26	5 13	48.4	564	883	11	14
11	15	151 9 54	11 50	+59.1	56 2 13	5 15	—48.1	+566	+882	11	15
11	16	151 21 44	11 49	59.4	55 56 58	5 15	47.8	567	882	11	16
11	17	151 33 33	11 50	59.7	55 51 44	5 14	47.6	569	881	11	17
11	18	151 45 23	11 51	60.0	55 46 28	5 16	47.3	570	881	11	18
11	19	151 57 14	11 51	60.3	55 41 12	5 16	47.0	572	880	11	19
11	20	152 9 5	11 51	+60.6	55 35 56	5 17	—46.7	+574	+880	11	20
11	21	152 20 56	11 52	60.9	55 30 39	5 18	46.4	575	879	11	21
11	22	152 32 48	11 51	61.2	55 25 21	5 18	46.1	577	879	11	22
11	23	152 44 39	11 53	61.5	55 20 3	5 19	45.8	579	878	11	23
11	24	152 56 32	11 52	61.8	55 14 44	5 19	45.5	580	875	11	24
11	25	153 8 24	11 53	+62.1	55 9 25	5 20	—45.2	+582	+878	11	25
11	26	153 20 17	11 54	62.4	55 4 5	5 21	44.9	584	877	11	26
11	27	153 32 11	11 54	62.7	54 58 44	5 21	44.6	585	877	11	27
11	28	153 44 5	11 54	63.0	54 53 23	5 21	44.3	587	876	11	28
11	29	153 55 59	11 55	63.4	54 48 2	5 22	44.0	589	876	11	29
11	30	154 7 54	11 55	+63.7	54 42 40	5 23	—43.7	+590	+875	11	30
11	31	154 19 49	11 56	64.0	54 37 17	5 23	43.4	592	875	11	31
11	32	154 31 45	11 56	64.4	54 31 54	5 24	43.0	593	874	11	32
11	33	154 43 41	11 56	64.7	54 26 30	5 24	42.7	595	874	11	33
11	34	154 55 37	11 57	65.0	54 21 6	5 25	42.4	597	873	11	34
11	35	155 7 34	11 57	+65.4	54 15 41	5 26	—42.0	+598	+873	11	35
11	36	155 19 31	11 58	65.7	54 10 15	5 26	41.7	600	873	11	36
11	37	155 31 29	11 58	66.0	54 4 49	5 26	41.3	602	872	11	37
11	38	155 43 27	11 59	66.4	53 59 23	5 27	41.0	603	872	11	38
11	39	155 55 26	11 59	66.7	53 53 56	5 27	40.7	605	871	11	39
11	40	156 7 25	12 0	+67.0	53 48 29	5 28	—40.3	+607	+871	11	40
11	41	156 19 25	12 0	67.4	53 43 1	5 28	39.9	608	871	11	41
11	42	156 31 25	12 1	67.7	53 37 33	5 29	39.6	610	870	11	42
11	43	156 43 26	12 2	68.0	53 32 4	5 30	39.3	612	870	11	43
11	44	156 55 28	12 1	68.4	53 26 34	5 30	38.9	613	869	11	44
11	45	157 7 29	12 2	+68.7	53 21 5	5 31	—38.5	+615	+869	11	45
11	46	157 19 31	12 3	69.0	53 15 34	5 31	38.2	616	868	11	46
11	47	157 31 34	12 3	69.4	53 10 3	5 31	37.8	618	868	11	47
11	48	157 43 37	12 4	69.7	53 4 32	5 32	37.5	620	868	11	48
11	49	157 55 41	12 4	70.0	52 59 0	5 32	37.2	621	867	11	49
11	50	158 7 45	12 5	+70.3	52 53 28	5 33	—36.9	+623	+867	11	50
11	51	158 19 50	12 6	70.6	52 47 55	5 33	36.6	625	866	11	51
11	52	158 31 56	12 6	71.0	52 42 22	5 34	36.3	626	866	11	52
11	53	158 44 2	12 6	71.3	52 36 48	5 34	36.0	628	866	11	53
11	54	158 56 8	12 8	71.6	52 31 14	5 35	35.8	630	865	11	54
11	55	159 8 16	12 7	+71.9	52 25 39	5 35	—35.5	+631	+865	11	55
11	56	159 20 23	12 9	72.2	52 20 4	5 35	35.2	633	864	11	56
11	57	159 32 32	12 9	72.5	52 14 29	5 36	34.9	635	864	11	57
11	58	159 44 41	12 9	72.8	52 8 53	5 36	34.6	636	864	11	58
11	59	159 56 50	12 10	73.2	52 3 17	5 37	34.3	638	863	11	59
12	0	160 9 0	12 10	73.5	51 57 40	5 37	34.0	639	863	12	0

## Longitude and Altitude of the Nonagesimal for the

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
12	0	160	9	0	12	11		+639''	+863''	12	0
12	1	160	21	11	12	11		641	862	12	1
12	2	160	33	22	12	12		643	862	12	2
12	3	160	45	34	12	13		644	862	12	3
12	4	160	57	47	12	13		646	861	12	4
12	5	161	10	0	12	14		+648	+861	12	5
12	6	161	22	14	12	14		649	861	12	6
12	7	161	34	28	12	14		651	860	12	7
12	8	161	46	44	12	16		652	860	12	8
12	9	161	59	0	12	16		654	860	12	9
12	10	162	11	16	12	17		+656	+859	12	10
12	11	162	23	33	12	17		657	859	12	11
12	12	162	35	51	12	18		659	859	12	12
12	13	162	48	10	12	19		661	858	12	13
12	14	163	0	29	12	19		662	858	12	14
12	15	163	12	49	12	20		+664	+858	12	15
12	16	163	25	10	12	21		665	857	12	16
12	17	163	37	31	12	21		667	857	12	17
12	18	163	49	54	12	23		669	857	12	18
12	19	164	2	17	12	23		670	856	12	19
12	20	164	14	41	12	24		+672	+856	12	20
12	21	164	27	5	12	24		673	856	12	21
12	22	164	39	31	12	26		675	855	12	22
12	23	164	51	57	12	26		677	855	12	23
12	24	165	4	23	12	26		678	855	12	24
12	25	165	16	51	12	28		+680	+854	12	25
12	26	165	29	19	12	28		682	854	12	26
12	27	165	41	49	12	30		683	854	12	27
12	28	165	54	19	12	31		685	854	12	28
12	29	166	6	50	12	31		686	853	12	29
12	30	166	19	22	12	32		+688	+853	12	30
12	31	166	31	54	12	32		690	853	12	31
12	32	166	44	28	12	34		691	852	12	32
12	33	166	57	2	12	34		693	852	12	33
12	34	167	9	38	12	36		695	852	12	34
12	35	167	22	14	12	36		+696	+852	12	35
12	36	167	34	51	12	37		698	851	12	36
12	37	167	47	28	12	37		699	851	12	37
12	38	168	0	7	12	39		701	851	12	38
12	39	168	12	47	12	40		703	851	12	39
12	40	168	25	28	12	41		+704	+850	12	40
12	41	168	38	9	12	41		706	850	12	41
12	42	168	50	52	12	43		707	850	12	42
12	43	169	3	36	12	44		709	850	12	43
12	44	169	16	20	12	44		711	849	12	44
12	45	169	29	6	12	46		+712	+849	12	45
12	46	169	41	52	12	46		714	849	12	46
12	47	169	54	40	12	48		715	849	12	47
12	48	170	7	28	12	48		717	849	12	48
12	49	170	20	17	12	49		718	848	12	49
12	50	170	33	8	12	51		+720	+848	12	50
12	51	170	45	59	12	51		722	848	12	51
12	52	170	58	52	12	53		723	848	12	52
12	53	171	11	46	12	54		725	848	12	53
12	54	171	24	41	12	55		726	847	12	54
12	55	171	37	37	12	56		+728	+847	12	55
12	56	171	50	33	12	56		730	847	12	56
12	57	172	3	31	12	58		731	847	12	57
12	58	172	16	31	13	0		733	847	12	58
12	59	172	29	31	13	0		734	846	12	59
13	0	172	42	32	13	1		736	846	13	0

Argument.		Longitude of the Nonagesimal.		Correction for $-100''$ in Obliq.	Altitude of the Nonagesimal.		Correction for $-100''$ in Obliq.	Corrections for $-1000''$ in Latitude.		Argument.
A. R. of Mer.								Long.	Alt.	A. R. of Mer.
H. M.										H. M.
13 0		172 42 32	13 3	+ 95.2	46 10 9	5 56	-12.3	+736''	+846''	13 0
13 1		172 55 35	13 3	95.6	46 4 13	5 56	11.9	737	846	13 1
13 2		173 8 38	13 5	95.9	45 58 17	5 56	11.5	739	846	13 2
13 3		173 21 43	13 6	96.3	45 52 21	5 56	11.2	741	846	13 3
13 4		173 34 49	13 7	96.7	45 46 25	5 56	10.8	742	846	13 4
13 5		173 47 56	13 9	+ 97.0	45 40 29	5 56	-10.4	+744	+846	13 5
13 6		174 1 5	13 9	97.4	45 34 33	5 56	10.0	745	845	13 6
13 7		174 14 14	13 11	97.8	45 28 37	5 57	9.7	747	845	13 7
13 8		174 27 25	13 12	98.1	45 22 40	5 57	9.3	748	845	13 8
13 9		174 40 37	13 14	98.5	45 16 43	5 56	8.9	750	845	13 9
13 10		174 53 51	13 14	+ 98.9	45 10 47	5 57	- 8.5	+751	+845	13 10
13 11		175 7 5	13 16	99.2	45 4 50	5 57	8.2	753	845	13 11
13 12		175 20 21	13 17	99.6	44 58 53	5 57	7.8	754	845	13 12
13 13		175 33 38	13 18	100.0	44 52 56	5 57	7.4	756	845	13 13
13 14		175 46 56	13 20	100.4	44 46 59	5 58	7.0	757	844	13 14
13 15		176 0 16	13 21	+100.8	44 41 1	5 57	- 6.6	+759	+844	13 15
13 16		176 13 37	13 22	101.1	44 35 4	5 58	6.3	760	844	13 16
13 17		176 26 59	13 24	101.5	44 29 6	5 58	5.9	762	844	13 17
13 18		176 40 23	13 25	101.9	44 23 8	5 57	5.5	763	844	13 18
13 19		176 53 48	13 27	102.3	44 17 11	5 58	5.1	765	844	13 19
13 20		177 7 15	13 27	+102.7	44 11 13	5 58	- 4.7	+766	+844	13 20
13 21		177 20 42	13 30	103.1	44 5 15	5 58	4.3	768	844	13 21
13 22		177 34 12	13 30	103.4	43 59 17	5 58	4.0	769	844	13 22
13 23		177 47 42	13 32	103.8	43 53 19	5 58	3.6	771	844	13 23
13 24		178 1 14	13 33	104.2	43 47 21	5 58	3.2	772	844	13 24
13 25		178 14 47	13 35	+104.6	43 41 23	5 58	- 2.8	+774	+844	13 25
13 26		178 28 22	13 36	105.0	43 35 25	5 59	2.4	775	844	13 26
13 27		178 41 58	13 38	105.4	43 29 26	5 58	2.0	777	844	13 27
13 28		178 55 36	13 39	105.7	43 23 28	5 58	1.7	778	844	13 28
13 29		179 9 15	13 41	106.1	43 17 30	5 58	1.3	780	844	13 29
13 30		179 22 56	13 43	+106.5	43 11 32	5 59	- 0.9	+781	+844	13 30
13 31		179 36 39	13 44	106.9	43 5 33	5 58	0.5	783	844	13 31
13 32		179 50 23	13 45	107.3	42 59 35	5 58	- 0.2	784	844	13 32
13 33		180 4 8	13 47	107.7	42 53 37	5 58	+ 0.2	786	844	13 33
13 34		180 17 55	13 48	108.0	42 47 39	5 59	0.6	787	844	13 34
13 35		180 31 43	13 50	+108.4	42 41 40	5 58	+ 1.0	+789	+844	13 35
13 36		180 45 33	13 51	108.8	42 35 42	5 58	1.4	790	844	13 36
13 37		180 59 24	13 53	109.2	42 29 44	5 59	1.8	791	844	13 37
13 38		181 13 17	13 55	109.6	42 23 45	5 58	2.2	793	844	13 38
13 39		181 27 12	13 57	109.9	42 17 47	5 58	2.6	794	844	13 39
13 40		181 41 9	13 58	+110.3	42 11 49	5 58	+ 3.0	+796	+844	13 40
13 41		181 55 7	13 59	110.7	42 5 51	5 58	3.4	797	844	13 41
13 42		182 9 6	14 2	111.1	41 59 53	5 58	3.8	799	844	13 42
13 43		182 23 8	14 3	111.4	41 53 55	5 58	4.2	800	844	13 43
13 44		182 37 11	14 5	111.8	41 47 57	5 58	4.6	801	844	13 44
13 45		182 51 16	14 6	+112.2	41 41 59	5 58	+ 5.0	+803	+844	13 45
13 46		183 5 22	14 8	112.6	41 36 1	5 58	5.4	804	844	13 46
13 47		183 19 30	14 10	112.9	41 30 3	5 57	5.8	805	844	13 47
13 48		183 33 40	14 12	113.3	41 24 6	5 57	6.2	807	844	13 48
13 49		183 47 52	14 13	113.7	41 18 8	5 58	6.6	808	844	13 49
13 50		184 2 5	14 16	+114.0	41 12 10	5 57	+ 7.0	+810	+844	13 50
13 51		184 16 21	14 17	114.4	41 6 13	5 57	7.5	811	845	13 51
13 52		184 30 38	14 19	114.7	41 0 16	5 57	7.9	812	845	13 52
13 53		184 44 57	14 21	115.1	40 54 19	5 57	8.3	814	845	13 53
13 54		184 59 18	14 22	115.5	40 48 22	5 57	8.7	815	845	13 54
13 55		185 13 40	14 25	+115.8	40 42 25	5 57	+ 9.1	+816	+845	13 55
13 56		185 28 5	14 26	116.2	40 36 28	5 56	9.5	817	845	13 56
13 57		185 42 31	14 29	116.5	40 30 32	5 57	10.0	819	845	13 57
13 58		185 57 0	14 30	116.9	40 24 35	5 56	10.4	820	845	13 58
13 59		186 11 30	14 32	117.2	40 18 39	5 56	10.8	821	846	13 59
14 0		186 26 2		117.6	40 12 43		11.2	823	846	14 0



*Longitude and Altitude of the Nonagesimal for the*

Argument. A. R. of Mer.		Longitude of the Nonagesimal.	Correction for —100'' in Obliq.	Altitude of the Nonagesimal.	Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.
H.	M.					Long.	Alt.	H. M.
14	0	186 26 2	+117.6	40 12 43	+11.2	+823''	+846''	14 0
14	1	186 40 36	118.0	40 6 47	11.6	8 4	846	14 1
14	2	186 55 12	118.3	40 0 51	12.1	825	846	14 2
14	3	187 9 50	118.7	39 54 55	12.5	827	846	14 3
14	4	187 24 30	119.0	39 49 0	12.9	828	846	14 4
14	5	187 39 12	+119.4	39 43 4	+13.3	+829	+847	14 5
14	6	187 53 56	119.7	39 37 9	13.8	830	847	14 6
14	7	188 8 42	120.1	39 31 15	14.2	831	847	14 7
14	8	188 23 30	120.4	39 25 20	14.6	833	847	14 8
14	9	188 38 21	120.8	39 19 26	15.0	834	847	14 9
14	10	188 53 13	+121.1	39 13 32	+15.0	+835	+848	14 10
14	11	189 8 7	121.5	39 7 38	15.9	836	848	14 11
14	12	189 23 4	121.8	39 1 44	16.3	837	848	14 12
14	13	189 38 2	122.1	38 55 51	16.7	838	848	14 13
14	14	189 53 3	122.5	38 49 57	17.2	840	849	14 14
14	15	190 8 6	+122.8	38 44 4	+17.6	+841	+849	14 15
14	16	190 23 12	123.1	38 38 12	18.0	842	849	14 16
14	17	190 38 19	123.4	38 32 20	18.5	843	850	14 17
14	18	190 53 29	123.8	38 26 28	18.9	844	850	14 18
14	19	191 8 41	124.1	38 20 36	19.3	845	850	14 19
14	20	191 23 56	+124.4	38 14 45	+19.8	+846	+850	14 20
14	21	191 39 12	124.7	38 8 54	20.2	847	851	14 21
14	22	191 54 31	125.1	38 3 3	20.6	848	851	14 22
14	23	192 9 52	125.4	37 57 12	21.1	849	851	14 23
14	24	192 25 16	125.7	37 51 22	21.5	850	852	14 24
14	25	192 40 42	+126.0	37 45 32	+21.9	+851	+852	14 25
14	26	192 56 10	126.3	37 39 43	22.4	852	852	14 26
14	27	193 11 41	126.6	37 33 54	22.8	853	853	14 27
14	28	193 27 14	126.9	37 28 5	23.3	854	853	14 28
14	29	193 42 49	127.2	37 22 17	23.7	855	853	14 29
14	30	193 58 28	+127.5	37 16 29	+24.2	+856	+854	14 30
14	31	194 14 8	127.8	37 10 42	24.6	857	854	14 31
14	32	194 29 51	128.1	37 4 55	25.0	858	854	14 32
14	33	194 45 37	128.4	36 59 8	25.5	859	855	14 33
14	34	195 1 25	128.7	36 53 22	25.9	860	855	14 34
14	35	195 17 16	+129.0	36 47 36	+26.4	+860	+855	14 35
14	36	195 33 9	129.3	36 41 50	26.8	861	856	14 36
14	37	195 49 4	129.6	36 36 5	27.3	862	856	14 37
14	38	196 5 3	129.9	36 30 21	27.7	863	857	14 38
14	39	196 21 4	130.2	36 24 37	28.2	864	857	14 39
14	40	196 37 7	+130.5	36 18 53	+28.6	+864	+858	14 40
14	41	196 53 14	130.8	36 13 10	29.1	865	858	14 41
14	42	197 9 23	131.0	36 7 27	29.5	866	858	14 42
14	43	197 25 35	131.3	36 1 45	30.0	866	859	14 43
14	44	197 41 49	131.6	35 56 4	30.4	867	859	14 44
14	45	197 58 7	+131.8	35 50 23	+30.9	+868	+860	14 45
14	46	198 14 27	132.1	35 44 42	31.3	868	860	14 46
14	47	198 30 50	132.4	35 39 2	31.8	869	861	14 47
14	48	198 47 15	132.6	35 33 23	32.2	869	861	14 48
14	49	199 3 43	132.9	35 27 44	32.7	870	862	14 49
14	50	199 20 15	+133.1	35 22 5	+33.1	+871	+862	14 50
14	51	199 36 49	133.4	35 16 27	33.6	871	863	14 51
14	52	199 53 26	133.6	35 10 50	34.0	872	863	14 52
14	53	200 10 6	133.8	35 5 13	34.5	872	864	14 53
14	54	200 26 49	134.0	34 59 37	35.0	872	864	14 54
14	55	200 43 35	+134.3	34 54 2	+35.4	+873	+865	14 55
14	56	201 0 24	134.5	34 48 27	35.9	873	865	14 56
14	57	201 17 16	134.7	34 42 53	36.3	874	866	14 57
14	58	201 34 11	134.9	34 37 20	36.8	874	867	14 58
14	59	201 51 9	135.1	34 31 47	37.2	874	867	14 59
15	0	202 8 9	135.3	34 26 14	37.7	875	868	15 0

Argument.		Longitude of the Nonagesimal.	Correction for —100'' in Obliq.	Altitude of the Nonagesimal.	Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument.	
A. R. of Mer.	H. M.					Long.	Alt.	A. R. of Mer.	H. M.
15 0	0	202 8 9	17 4	+135.3	34 26 14	+37.7	+875''	+868''	15 0
15 1	1	202 25 13	17 7	135.5	34 20 43	38.2	875	868	15 1
15 2	2	202 42 20	17 7	135.7	34 15 12	38.6	875	869	15 2
15 3	3	202 59 31	17 11	135.9	34 9 42	39.1	875	869	15 3
15 4	4	203 16 44	17 13	136.0	34 4 12	39.5	875	870	15 4
15 5	5	203 34 1	17 17	+136.2	33 58 43	+40.0	+876	+871	15 5
15 6	6	203 51 21	17 20	136.4	33 53 15	40.5	876	871	15 6
15 7	7	204 8 44	17 23	136.5	33 47 48	40.9	876	872	15 7
15 8	8	204 26 10	17 26	136.7	33 42 22	41.4	876	873	15 8
15 9	9	204 43 40	17 30	136.8	33 36 56	41.8	876	873	15 9
15 10	10	205 1 12	17 32	+136.9	33 31 31	+42.3	+876	+874	15 10
15 11	11	205 18 48	17 36	137.1	33 26 6	42.7	876	874	15 11
15 12	12	205 36 27	17 39	137.2	33 20 43	43.2	876	875	15 12
15 13	13	205 54 10	17 43	137.3	33 15 20	43.7	876	876	15 13
15 14	14	206 11 56	17 46	137.5	33 9 58	44.1	875	876	15 14
15 15	15	206 29 45	17 49	+137.6	33 4 37	+44.6	+875	+877	15 15
15 16	16	206 47 38	17 53	137.7	32 59 17	45.1	875	878	15 16
15 17	17	207 5 34	17 56	137.8	32 53 57	45.5	875	878	15 17
15 18	18	207 23 34	18 0	137.9	32 48 39	46.0	874	879	15 18
15 19	19	207 41 37	18 3	138.0	32 43 21	46.5	874	880	15 19
15 20	20	207 59 43	18 6	+138.1	32 38 4	+46.9	+874	+881	15 20
15 21	21	208 17 53	18 10	138.1	32 32 48	47.4	873	881	15 21
15 22	22	208 36 7	18 14	138.2	32 27 33	47.9	873	882	15 22
15 23	23	208 54 24	18 17	138.3	32 22 19	48.3	872	883	15 23
15 24	24	209 12 44	18 20	138.3	32 17 6	48.8	872	883	15 24
15 25	25	209 31 8	18 24	+138.4	32 11 54	+49.3	+871	+884	15 25
15 26	26	209 49 36	18 28	138.4	32 6 42	49.8	871	885	15 26
15 27	27	210 8 7	18 31	138.4	32 1 32	50.2	870	886	15 27
15 28	28	210 26 42	18 35	138.4	31 56 22	50.7	869	886	15 28
15 29	29	210 45 21	18 39	138.5	31 51 14	51.2	869	887	15 29
15 30	30	211 4 4	18 43	+138.5	31 46 7	+51.7	+868	+888	15 30
15 31	31	211 22 50	18 46	138.5	31 41 0	52.1	867	889	15 31
15 32	32	211 41 40	18 50	138.4	31 35 55	52.6	866	890	15 32
15 33	33	212 0 33	18 53	138.4	31 30 51	53.1	865	890	15 33
15 34	34	212 19 30	18 57	138.4	31 25 47	53.6	864	891	15 34
15 35	35	212 38 31	19 1	+138.3	31 20 45	+54.0	+863	+892	15 35
15 36	36	212 57 36	19 5	138.3	31 15 44	54.5	862	893	15 36
15 37	37	213 16 44	19 8	138.2	31 10 44	55.0	861	894	15 37
15 38	38	213 35 57	19 13	138.2	31 5 45	55.4	860	894	15 38
15 39	39	213 55 13	19 16	138.1	31 0 47	55.9	859	895	15 39
15 40	40	214 14 33	19 20	+138.0	30 55 50	+56.3	+858	+896	15 40
15 41	41	214 33 57	19 24	137.9	30 50 54	56.8	856	897	15 41
15 42	42	214 53 25	19 28	137.8	30 46 0	57.3	855	898	15 42
15 43	43	215 12 57	19 32	137.7	30 41 7	57.7	854	899	15 43
15 44	44	215 32 33	19 36	137.6	30 36 15	58.2	852	900	15 44
15 45	45	215 52 13	19 40	+137.5	30 31 24	+58.6	+851	+900	15 45
15 46	46	216 11 57	19 44	137.3	30 26 34	59.1	849	901	15 46
15 47	47	216 31 44	19 47	137.2	30 21 45	59.5	848	902	15 47
15 48	48	216 51 36	19 52	137.0	30 16 53	60.0	846	903	15 48
15 49	49	217 11 31	19 55	136.8	30 12 12	60.5	844	904	15 49
15 50	50	217 31 31	20 0	+136.7	30 7 27	+60.9	+842	+905	15 50
15 51	51	217 51 35	20 4	136.5	30 2 43	61.4	841	906	15 51
15 52	52	218 11 43	20 8	136.3	29 58 1	61.8	839	907	15 52
15 53	53	218 31 55	20 12	136.1	29 53 20	62.3	837	908	15 53
15 54	54	218 52 11	20 16	135.8	29 48 41	62.8	835	908	15 54
15 55	55	219 12 31	20 20	+135.6	29 44 3	+63.2	+833	+909	15 55
15 56	56	219 32 55	20 24	135.4	29 39 26	63.7	831	910	15 56
15 57	57	219 53 23	20 28	135.1	29 34 50	64.1	828	911	15 57
15 58	58	220 13 56	20 33	134.9	29 30 16	64.6	826	912	15 58
15 59	59	220 34 33	20 37	134.6	29 25 43	65.0	824	913	15 59
16 0	0	220 55 13	20 40	134.3	29 21 11	65.5	821	914	16 0

Argument.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument.	
A. R. of Mer.										A. R. of Mer.	
H.	M.	°	'		°	'		Long.	Alt.	H.	M.
16	0	220	55 13	+134.3	29	21 11	+65.5	+821''	+914''	16	0
16	1	221	15 58	134.0	29	16 41	66.0	819	915	16	1
16	2	221	36 47	133.7	29	12 12	66.4	817	916	16	2
16	3	221	57 41	133.4	29	7 45	66.9	814	917	16	3
16	4	222	18 38	133.1	29	3 19	67.3	811	918	16	4
16	5	222	39 40	+132.7	28	58 55	+67.8	+809	+919	16	5
16	6	223	0 47	132.4	28	54 33	68.3	806	920	16	6
16	7	223	21 57	132.0	28	50 11	68.7	803	921	16	7
16	8	223	43 12	131.6	28	45 52	69.2	800	922	16	8
16	9	224	4 31	131.3	28	41 34	69.6	797	923	16	9
16	10	224	25 54	+130.9	28	37 17	+70.1	+794	+924	16	10
16	11	224	47 21	130.4	28	33 2	70.5	791	925	16	11
16	12	225	8 52	130.0	28	28 48	71.0	788	926	16	12
16	13	225	30 28	129.6	28	24 36	71.4	785	926	16	13
16	14	225	52 9	129.1	28	20 26	71.9	781	927	16	14
16	15	226	13 53	+128.6	28	16 17	+72.3	+778	+928	16	15
16	16	226	35 42	128.1	28	12 10	72.8	775	929	16	16
16	17	226	57 35	127.6	28	8 5	73.2	771	930	16	17
16	18	227	19 33	127.1	28	4 1	73.6	767	931	16	18
16	19	227	41 35	126.6	27	59 59	74.1	764	932	16	19
16	20	228	3 41	+126.0	27	55 59	+74.5	+760	+933	16	20
16	21	228	25 51	125.5	27	52 0	74.9	756	934	16	21
16	22	228	48 6	124.9	27	48 3	75.4	752	935	16	22
16	23	229	10 25	124.3	27	44 8	75.8	748	936	16	23
16	24	229	32 48	123.7	27	40 15	76.2	744	937	16	24
16	25	229	55 16	+123.1	27	36 23	+76.6	+740	+938	16	25
16	26	230	17 48	122.5	27	32 33	77.0	736	939	16	26
16	27	230	40 25	121.8	27	28 45	77.5	731	940	16	27
16	28	231	3 5	121.1	27	24 59	77.9	727	941	16	28
16	29	231	25 50	120.5	27	21 15	78.3	723	942	16	29
16	30	231	48 39	+119.8	27	17 33	+78.7	+718	+943	16	30
16	31	232	11 33	119.1	27	13 52	79.1	713	944	16	31
16	32	232	34 31	118.3	27	10 14	79.5	709	945	16	32
16	33	232	57 33	117.6	27	6 37	79.9	704	946	16	33
16	34	233	20 39	116.9	27	3 2	80.3	699	947	16	34
16	35	233	43 50	+116.1	26	59 29	+80.7	+694	+948	16	35
16	36	234	7 5	115.3	26	55 58	81.1	689	949	16	36
16	37	234	30 24	114.5	26	52 29	81.5	684	950	16	37
16	38	234	53 48	113.7	26	49 1	81.9	679	951	16	38
16	39	235	17 15	112.9	26	45 36	82.3	673	952	16	39
16	40	235	40 47	+112.0	26	42 13	+82.6	+668	+953	16	40
16	41	236	4 23	111.2	26	38 52	83.0	662	954	16	41
16	42	236	28 3	110.3	26	35 33	83.4	657	955	16	42
16	43	236	51 47	109.4	26	32 17	83.8	651	956	16	43
16	44	237	15 36	108.5	26	29 2	84.1	645	957	16	44
16	45	237	39 28	+107.6	26	25 49	+84.5	+640	+958	16	45
16	46	238	3 25	106.6	26	22 39	84.9	634	959	16	46
16	47	238	27 26	105.7	26	19 30	85.3	628	960	16	47
16	48	238	51 31	104.7	26	16 24	85.6	622	961	16	48
16	49	239	15 40	103.7	26	13 19	86.0	616	962	16	49
16	50	239	39 52	+102.7	26	10 17	+86.3	+609	+962	16	50
16	51	240	4 9	101.7	26	7 17	86.7	603	963	16	51
16	52	240	28 30	100.6	26	4 19	87.0	597	964	16	52
16	53	240	52 55	99.6	26	1 24	87.4	590	965	16	53
16	54	241	17 24	98.5	25	58 31	87.7	584	966	16	54
16	55	241	41 56	+97.4	25	55 40	+88.1	+577	+967	16	55
16	56	242	6 33	96.3	25	52 51	88.4	570	968	16	56
16	57	242	31 13	95.2	25	50 5	88.7	564	969	16	57
16	58	242	55 57	94.1	25	47 21	89.1	557	970	16	58
16	59	243	20 45	93.0	25	44 39	89.4	550	971	16	59
17	0	243	45 36	91.8	25	41 59	89.7	543	972	17	0

Argument.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument.	
A. R. of Mer.										A. R. of Mer.	
H.	M.	°	'		°	'		Long.	Alt.	H.	M.
17	0	243	45 36	+91.8	25	41 59	+89.7	+543''	+972''	17	0
17	1	244	10 32	90.6	25	39 22	90.0	535	973	17	1
17	2	244	35 31	89.4	25	36 47	90.3	528	973	17	2
17	3	245	0 33	88.2	25	34 14	90.6	521	974	17	3
17	4	245	25 39	87.0	25	31 44	90.9	513	975	17	4
17	5	245	50 49	+85.8	25	29 16	+91.2	+506	+976	17	5
17	6	246	16 2	84.5	25	26 51	91.5	498	977	17	6
17	7	246	41 19	83.3	25	24 28	91.8	491	977	17	7
17	8	247	6 39	82.0	25	22 7	92.1	483	978	17	8
17	9	247	32 2	80.7	25	19 49	92.4	475	979	17	9
17	10	247	57 29	+79.4	25	17 33	+92.7	+467	+980	17	10
17	11	248	22 59	78.0	25	15 20	92.9	459	980	17	11
17	12	248	48 32	76.7	25	13 9	93.2	451	981	17	12
17	13	249	14 9	75.3	25	11 1	93.5	443	982	17	13
17	14	249	39 49	74.0	25	8 55	93.7	435	983	17	14
17	15	250	5 31	+72.6	25	6 52	+94.0	+427	+983	17	15
17	16	250	31 17	71.2	25	4 51	94.2	418	984	17	16
17	17	250	57 6	69.8	25	2 53	94.5	410	985	17	17
17	18	251	22 58	68.3	25	0 57	94.7	401	985	17	18
17	19	251	48 53	66.9	24	59 4	94.9	393	986	17	19
17	20	252	14 50	+65.4	24	57 14	+95.2	+384	+986	17	20
17	21	252	40 51	64.0	24	55 26	95.4	376	987	17	21
17	22	253	6 54	62.5	24	53 40	95.6	367	988	17	22
17	23	253	32 59	61.0	24	51 58	95.8	358	988	17	23
17	24	253	59 8	59.5	24	50 18	96.0	349	989	17	24
17	25	254	25 19	+58.0	24	48 40	+96.2	+340	+989	17	25
17	26	254	51 32	56.5	24	47 5	96.4	331	990	17	26
17	27	255	17 47	54.9	24	45 33	96.6	322	990	17	27
17	28	255	44 5	53.4	24	44 3	96.8	313	991	17	28
17	29	256	10 26	51.8	24	42 36	97.0	304	991	17	29
17	30	256	36 49	+50.3	24	41 12	+97.1	+295	+992	17	30
17	31	257	3 14	48.7	24	39 50	97.3	285	992	17	31
17	32	257	29 41	47.1	24	38 31	97.5	276	993	17	32
17	33	257	56 10	45.5	24	37 15	97.7	267	993	17	33
17	34	258	22 42	43.9	24	36 2	97.8	257	994	17	34
17	35	258	49 15	+42.3	24	34 51	+98.0	+248	+994	17	35
17	36	259	15 50	40.7	24	33 43	98.1	238	994	17	36
17	37	259	42 27	39.1	24	32 37	98.2	229	995	17	37
17	38	260	9 6	37.4	24	31 35	98.4	219	995	17	38
17	39	260	35 46	35.8	24	30 35	98.5	209	996	17	39
17	40	261	2 27	+34.2	24	29 38	+98.6	+200	+996	17	40
17	41	261	29 10	32.5	24	28 43	98.7	190	996	17	41
17	42	261	55 55	30.8	24	27 52	98.8	180	997	17	42
17	43	262	22 41	29.2	24	27 3	99.0	170	997	17	43
17	44	262	49 29	27.5	24	26 17	99.1	160	997	17	44
17	45	263	16 17	+25.8	24	25 33	+99.1	+151	+998	17	45
17	46	263	43 7	24.1	24	24 53	99.2	141	998	17	46
17	47	264	9 57	22.4	24	24 15	99.3	131	998	17	47
17	48	264	36 49	20.7	24	23 40	99.4	121	998	17	48
17	49	265	3 42	19.0	24	23 8	99.5	111	998	17	49
17	50	265	30 35	+17.3	24	22 38	+99.6	+101	+999	17	50
17	51	265	57 29	15.6	24	22 11	99.6	91	999	17	51
17	52	266	24 24	13.8	24	21 48	99.7	81	999	17	52
17	53	266	51 20	12.1	24	21 27	99.8	71	999	17	53
17	54	267	18 16	10.4	24	21 8	99.8	61	999	17	54
17	55	267	45 13	+ 8.7	24	20 53	+99.9	+ 51	+999	17	55
17	56	268	12 10	6.9	24	20 40	99.9	40	999	17	56
17	57	268	39 7	5.2	24	20 30	99.9	30	999	17	57
17	58	269	6 5	3.5	24	20 23	100.0	20	999	17	58
17	59	269	33 2	1.8	24	20 19	100.0	10	1000	17	59
18	0	270	0 0	0.0	24	20 18	100.0	0	1000	18	0

## Longitude and Altitude of the Nonagesimal for the

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for $-100''$ in Oblq.	Altitude of the Nonagesimal.		Correction for $-100''$ in Oblq.	Corrections for $-1000''$ in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
18	0	270	0	0	24	20	18	+100.0	- 0''	18	0
18	1	270	26	58	24	20	19	100.0	10	18	1
18	2	270	53	55	24	20	23	100.0	20	18	2
18	3	271	20	53	24	20	30	99.9	30	18	3
18	4	271	47	50	24	20	40	99.9	40	18	4
18	5	272	14	47	24	20	53	+ 99.9	- 51	18	5
18	6	272	41	44	24	21	8	99.8	61	18	6
18	7	273	8	40	24	21	27	99.8	71	18	7
18	8	273	35	36	24	21	48	99.7	81	18	8
18	9	274	2	31	24	22	11	99.6	91	18	9
18	10	274	29	25	24	22	38	+ 99.6	-101	18	10
18	11	274	56	18	24	23	8	99.5	111	18	11
18	12	275	23	11	24	23	40	99.4	121	18	12
18	13	275	50	3	24	24	15	99.3	131	18	13
18	14	276	16	53	24	24	53	99.2	141	18	14
18	15	276	43	43	24	25	33	+ 99.1	-151	18	15
18	16	277	10	32	24	26	17	99.1	160	18	16
18	17	277	37	19	24	27	3	99.0	170	18	17
18	18	278	4	5	24	27	52	98.8	180	18	18
18	19	278	30	50	24	28	43	98.7	190	18	19
18	20	278	57	33	24	29	38	+ 98.6	-200	18	20
18	21	279	24	15	24	30	35	98.5	209	18	21
18	22	279	50	55	24	31	35	98.4	219	18	22
18	23	280	17	33	24	32	37	98.2	229	18	23
18	24	280	44	10	24	33	43	98.1	238	18	24
18	25	281	10	45	24	34	51	+ 98.0	-248	18	25
18	26	281	37	18	24	36	2	97.8	257	18	26
18	27	282	3	50	24	37	15	97.7	267	18	27
18	28	282	30	19	24	38	31	97.5	276	18	28
18	29	282	56	46	24	39	50	97.3	285	18	29
18	30	283	23	11	24	41	12	+ 97.1	-295	18	30
18	31	283	49	34	24	42	36	97.0	304	18	31
18	32	284	15	55	24	44	3	96.8	313	18	32
18	33	284	42	13	24	45	33	96.6	322	18	33
18	34	285	8	28	24	47	5	96.4	331	18	34
18	35	285	34	42	24	48	40	+ 96.2	-340	18	35
18	36	286	0	52	24	50	18	96.0	349	18	36
18	37	286	27	1	24	51	58	95.8	358	18	37
18	38	286	53	7	24	53	40	95.6	367	18	38
18	39	287	19	10	24	55	26	95.4	376	18	39
18	40	287	45	10	24	57	14	+ 95.2	-384	18	40
18	41	288	11	7	24	59	4	94.9	393	18	41
18	42	288	37	2	25	0	57	94.7	401	18	42
18	43	289	2	54	25	2	53	94.5	410	18	43
18	44	289	28	43	25	4	51	94.2	418	18	44
18	45	289	54	29	25	6	52	+ 94.0	-427	18	45
18	46	290	20	12	25	8	55	93.7	435	18	46
18	47	290	45	51	25	11	1	93.5	443	18	47
18	48	291	11	28	25	13	9	93.2	451	18	48
18	49	291	37	1	25	15	20	92.9	459	18	49
18	50	292	2	31	25	17	33	+ 92.7	-467	18	50
18	51	292	27	58	25	19	49	92.4	475	18	51
18	52	292	53	21	25	22	7	92.1	483	18	52
18	53	293	18	41	25	24	28	91.8	491	18	53
18	54	293	43	58	25	26	51	91.5	498	18	54
18	55	294	9	11	25	29	16	+ 91.2	-506	18	55
18	56	294	34	21	25	31	44	90.9	513	18	56
18	57	294	59	27	25	34	14	90.6	521	18	57
18	58	295	24	30	25	36	47	90.3	528	18	58
18	59	295	49	29	25	39	22	90.0	535	18	59
19	0	296	14	24	25	41	59	89.7	543	19	0

Lat.  $42^{\circ} 23' 28''$  N. (reduced  $42^{\circ} 12' 2''.4$ ), and Obliquity  $23^{\circ} 27' 40''$ . 65

Argument.		Longitude of the Nonagesimal.	Correction for $-100''$ in Obliq.	Altitude of the Nonagesimal.	Correction for $-100''$ in Obliq.	Corrections for $-1000''$ in Latitude.		Argument.
A. R. of Mer.						Long.	Alt.	
H.	M.							H. M.
19	0	296 14 24	- 91.8	25 41 59	+89.7	-543''	+972''	19 0
19	1	296 39 15	93.0	25 44 39	89.4	550	971	19 1
19	2	297 4 3	94.1	25 47 21	89.1	557	970	19 2
19	3	297 28 47	95.2	25 50 5	88.7	564	969	19 3
19	4	297 53 27	96.3	25 52 51	88.4	570	968	19 4
		24 37		2 49				
19	5	298 18 4	- 97.4	25 55 40	+88.1	-577	+967	19 5
19	6	298 42 37	98.5	25 58 31	87.7	584	966	19 6
19	7	299 7 5	99.6	26 1 24	87.4	590	965	19 7
19	8	299 31 30	100.6	26 4 19	87.0	597	964	19 8
19	9	299 55 51	101.7	26 7 17	86.7	603	963	19 9
		24 17		3 0				
19	10	300 20 8	-102.7	26 10 17	+86.3	-609	+962	19 10
19	11	300 44 21	103.7	26 13 19	86.0	616	962	19 11
19	12	301 8 29	104.7	26 16 24	85.6	622	961	19 12
19	13	301 32 34	105.7	26 19 30	85.3	628	960	19 13
19	14	301 56 35	106.6	26 22 39	84.9	634	959	19 14
		23 57		3 10				
19	15	302 20 32	-107.6	26 25 49	+84.5	-640	+958	19 15
19	16	302 44 24	108.5	26 29 2	84.1	645	957	19 16
19	17	303 8 13	109.4	26 32 17	83.8	651	956	19 17
19	18	303 31 57	110.3	26 35 33	83.4	657	955	19 18
19	19	303 55 37	111.2	26 38 52	83.0	662	954	19 19
		23 36		3 21				
19	20	304 19 13	-112.0	26 42 13	+82.6	-668	+953	19 20
19	21	304 42 45	112.9	26 45 36	82.3	673	952	19 21
19	22	305 6 13	113.7	26 49 1	81.9	679	951	19 22
19	23	305 29 36	114.5	26 52 29	81.5	684	950	19 23
19	24	305 52 55	115.3	26 55 58	81.1	689	949	19 24
		23 15		3 31				
19	25	306 16 10	-116.1	26 59 29	+80.7	-694	+948	19 25
19	26	306 39 21	116.9	27 3 2	80.3	699	947	19 26
19	27	307 2 27	117.6	27 6 37	79.9	704	946	19 27
19	28	307 25 29	118.3	27 10 14	79.5	709	945	19 28
19	29	307 48 27	119.1	27 13 52	79.1	713	944	19 29
		22 54		3 41				
19	30	308 11 21	-119.8	27 17 33	+78.7	-718	+943	19 30
19	31	308 34 10	120.5	27 21 15	78.3	723	942	19 31
19	32	308 56 55	121.1	27 24 59	77.9	727	941	19 32
19	33	309 19 36	121.8	27 28 45	77.5	731	940	19 33
19	34	309 42 12	122.5	27 32 33	77.0	736	939	19 34
		22 32		3 50				
19	35	310 4 44	-123.1	27 36 23	+76.6	-740	+938	19 35
19	36	310 27 12	123.7	27 40 15	76.2	744	937	19 36
19	37	310 49 35	124.3	27 44 8	75.8	748	936	19 37
19	38	311 11 54	124.9	27 48 3	75.4	752	935	19 38
19	39	311 34 9	125.5	27 52 0	74.9	756	934	19 39
		22 10		3 59				
19	40	311 56 19	-126.0	27 55 59	+74.5	-760	+933	19 40
19	41	312 18 25	126.6	27 59 59	74.1	764	932	19 41
19	42	312 40 27	127.1	28 4 1	73.6	767	931	19 42
19	43	313 2 25	127.6	28 8 5	73.2	771	930	19 43
19	44	313 24 18	128.1	28 12 10	72.8	775	929	19 44
		21 49		4 7				
19	45	313 46 7	-128.6	28 16 17	+72.3	-778	+928	19 45
19	46	314 7 51	129.1	28 20 26	71.9	781	927	19 46
19	47	314 29 32	129.6	28 24 36	71.4	785	926	19 47
19	48	314 51 8	130.0	28 28 48	71.0	788	926	19 48
19	49	315 12 39	130.4	28 33 2	70.5	791	925	19 49
		21 28		4 15				
19	50	315 34 7	-130.9	28 37 17	+70.1	-794	+924	19 50
19	51	315 55 30	131.3	28 41 34	69.6	797	923	19 51
19	52	316 16 48	131.6	28 45 52	69.2	800	922	19 52
19	53	316 38 3	132.0	28 50 11	68.7	803	921	19 53
19	54	316 59 13	132.4	28 54 32	68.3	806	920	19 54
		21 7		4 23				
19	55	317 20 20	-132.7	28 58 55	+67.8	-809	+919	19 55
19	56	317 41 22	133.1	29 3 19	67.3	811	918	19 56
19	57	318 2 19	133.4	29 7 45	66.9	814	917	19 57
19	58	318 23 13	133.7	29 12 12	66.4	817	916	19 58
19	59	318 44 2	134.0	29 16 41	66.0	819	915	19 59
20	0	319 4 47	134.3	29 21 11	65.5	821	914	20 0

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for —100'' in Obliq.	Altitude of the Nonagesimal.		Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
20	0	319	4	47	20	41	—134.3	—821''	+914''	20	0
20	1	319	25	23	20	36	134.6	824	913	20	1
20	2	319	46	4	20	33	134.9	826	912	20	2
20	3	320	6	37	20	28	135.1	828	911	20	3
20	4	320	27	5	20	24	135.4	831	910	20	4
20	5	320	47	29	20	20	—135.6	—833	+909	20	5
20	6	321	7	49	20	16	135.8	835	908	20	6
20	7	321	28	5	20	12	136.1	837	908	20	7
20	8	321	48	17	20	8	136.3	839	907	20	8
20	9	322	8	25	20	4	136.5	841	906	20	9
20	10	322	28	29	20	0	—136.7	—842	+905	20	10
20	11	322	48	29	19	55	136.8	844	904	20	11
20	12	323	8	24	19	52	137.0	846	903	20	12
20	13	323	28	16	19	48	137.2	848	902	20	13
20	14	323	48	4	19	43	137.3	849	901	20	14
20	15	324	7	47	19	40	—137.5	—851	+900	20	15
20	16	324	27	27	19	36	137.6	852	900	20	16
20	17	324	47	3	19	32	137.7	854	899	20	17
20	18	325	6	35	19	28	137.8	855	898	20	18
20	19	325	26	3	19	24	137.9	856	897	20	19
20	20	325	45	27	19	20	—138.0	—858	+896	20	20
20	21	326	4	47	19	16	138.1	859	895	20	21
20	22	326	24	3	19	13	138.2	860	894	20	22
20	23	326	43	16	19	8	138.2	861	894	20	23
20	24	327	2	24	19	5	138.3	862	893	20	24
20	25	327	21	29	19	1	—138.3	—863	+892	20	25
20	26	327	40	30	18	57	138.4	864	891	20	26
20	27	327	59	27	18	54	138.4	865	890	20	27
20	28	328	18	21	18	49	138.4	866	890	20	28
20	29	328	37	10	18	46	138.5	867	889	20	29
20	30	328	55	56	18	43	—138.5	—868	+888	20	30
20	31	329	14	39	18	39	138.5	869	887	20	31
20	32	329	33	18	18	35	138.4	869	886	20	32
20	33	329	51	53	18	31	138.4	870	886	20	33
20	34	330	10	24	18	28	138.4	871	885	20	34
20	35	330	28	52	18	24	—138.4	—871	+884	20	35
20	36	330	47	16	18	20	138.3	872	883	20	36
20	37	331	5	36	18	16	138.3	872	883	20	37
20	38	331	23	53	18	14	138.2	873	882	20	38
20	39	331	42	7	18	10	138.1	873	881	20	39
20	40	332	0	17	18	6	—138.1	—874	+881	20	40
20	41	332	18	23	18	4	138.0	874	880	20	41
20	42	332	36	27	18	4	137.9	874	879	20	42
20	43	332	54	26	17	59	137.8	875	878	20	43
20	44	333	12	22	17	56	137.7	875	878	20	44
20	45	333	30	15	17	53	—137.6	—875	+877	20	45
20	46	333	48	5	17	50	137.5	875	876	20	46
20	47	334	5	51	17	46	137.3	876	876	20	47
20	48	334	23	33	17	42	137.2	876	875	20	48
20	49	334	41	12	17	39	137.1	876	874	20	49
20	50	334	58	48	17	36	—136.9	—876	+874	20	50
20	51	335	16	21	17	33	136.8	876	873	20	51
20	52	335	33	50	17	29	136.7	876	873	20	52
20	53	335	51	16	17	26	136.5	876	872	20	53
20	54	336	8	39	17	23	136.4	876	871	20	54
20	55	336	25	59	17	20	—136.2	—876	+871	20	55
20	56	336	43	16	17	17	136.0	875	870	20	56
20	57	337	0	29	17	13	135.9	875	869	20	57
20	58	337	17	40	17	7	135.7	875	869	20	58
20	59	337	34	47	17	4	135.5	875	868	20	59
21	0	337	51	51	17	0	135.3	875	868	21	0

Argument. A. R. of Mer.		Longitude of the Nonagesimal.		Correction for $-100'$ in Obliq.	Altitude of the Nonagesimal.		Correction for $-100''$ in Obliq.	Corrections for $-1000''$ in Latitude.		Argument. A. R. of Mer.	
H.	M.	°	'	''	°	'	''	Long.	Alt.	H.	M.
21	0	337	51	51	135.3	34	26	14	+37.7	21	0
21	1	333	8	51	135.1	34	31	47	37.2	21	1
21	2	334	25	49	134.9	34	37	20	36.8	21	2
21	3	338	42	44	134.7	34	42	53	36.3	21	3
21	4	338	59	36	134.5	34	48	27	35.9	21	4
21	5	339	16	25	134.3	34	54	2	+35.4	21	5
21	6	339	33	11	134.0	34	59	37	35.0	21	6
21	7	339	49	54	133.8	35	5	13	34.5	21	7
21	8	340	6	34	133.6	35	10	50	34.0	21	8
21	9	240	23	11	133.4	35	16	27	33.6	21	9
21	10	340	39	46	133.1	35	22	5	+33.1	21	10
21	11	340	56	17	132.9	35	27	44	32.7	21	11
21	12	341	12	45	132.6	35	33	23	32.2	21	12
21	13	341	29	11	132.4	35	39	2	31.8	21	13
21	14	341	45	33	132.1	35	44	42	31.3	21	14
21	15	342	1	53	131.8	35	50	23	+30.9	21	15
21	16	342	18	11	131.6	35	56	4	30.4	21	16
21	17	342	34	25	131.3	36	1	45	30.0	21	17
21	18	342	50	37	131.0	36	7	27	29.5	21	18
21	19	343	6	46	130.8	36	13	10	29.1	21	19
21	20	343	22	53	130.5	36	18	53	+28.6	21	20
21	21	343	38	57	130.2	36	24	37	28.2	21	21
21	22	343	54	58	129.9	36	30	21	27.7	21	22
21	23	344	10	56	129.6	36	36	5	27.3	21	23
21	24	344	26	51	129.3	36	41	50	26.8	21	24
21	25	344	42	44	129.0	36	47	36	+26.4	21	25
21	26	344	58	35	128.7	36	53	22	25.9	21	26
21	27	345	14	23	128.4	36	59	8	25.5	21	27
21	28	345	30	9	128.1	37	4	55	25.0	21	28
21	29	345	45	52	127.8	37	10	42	24.6	21	29
21	30	346	1	32	127.5	37	16	29	+24.2	21	30
21	31	346	17	10	127.2	37	22	17	23.7	21	31
21	32	346	32	46	126.9	37	28	5	23.3	21	32
21	33	346	48	20	126.6	37	33	54	22.8	21	33
21	34	347	3	50	126.3	37	39	43	22.4	21	34
21	35	347	19	18	126.0	37	45	32	+21.9	21	35
21	36	347	34	44	125.7	37	51	22	21.5	21	36
21	37	347	50	8	125.4	37	57	12	21.1	21	37
21	38	348	5	29	125.1	38	3	3	20.6	21	38
21	39	348	20	48	124.7	38	8	54	20.2	21	39
21	40	348	36	4	124.4	38	14	45	+19.8	21	40
21	41	348	51	19	124.1	38	20	36	19.3	21	41
21	42	349	6	31	123.8	38	26	28	18.9	21	42
21	43	349	21	41	123.4	38	32	20	18.5	21	43
21	44	349	36	48	123.1	38	38	12	18.0	21	44
21	45	349	51	54	122.8	38	44	4	+17.6	21	45
21	46	350	6	57	122.5	38	49	57	17.2	21	46
21	47	350	21	58	122.1	38	55	51	16.7	21	47
21	48	350	36	56	121.8	39	1	44	16.3	21	48
21	49	350	51	53	121.5	39	7	38	15.9	21	49
21	50	351	6	47	121.1	39	13	32	+15.5	21	50
21	51	351	21	39	120.8	39	19	26	15.0	21	51
21	52	351	36	30	120.4	39	25	20	14.6	21	52
21	53	351	51	18	120.1	39	31	15	14.2	21	53
21	54	352	6	4	119.7	39	37	9	13.8	21	54
21	55	352	20	48	119.4	39	43	4	+13.3	21	55
21	56	352	35	30	119.0	39	49	0	12.9	21	56
21	57	352	50	11	118.7	39	54	55	12.5	21	57
21	58	353	4	49	118.3	40	0	51	12.1	21	58
21	59	353	19	24	118.0	40	6	47	11.6	21	59
22	0	353	33	58	117.6	40	12	43	11.2	22	0



## Longitude and Altitude of the Nonagesimal for the

Argument.		Longitude of the Nonagesimal.				Correction for —100'' in Obliq.	Altitude of the Nonagesimal.				Correction for —100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument.	
A. R. of Mer.														A. R. of Mer.	
H.	M.	°	′	″	″		°	′	″	″		Long.	Alt.	H.	M.
22	0	353	33	58	14 32	—117.6	40	12	43	5 56	+11.2	—823''	+846''	22	0
22	1	353	48	30	14 30	117.2	40	18	39	5 56	10.8	821	846	22	1
22	2	354	3	0	14 30	116.9	40	24	35	5 56	10.4	820	845	22	2
22	3	354	17	29	14 29	116.5	40	30	32	5 57	10.0	819	845	22	3
22	4	354	31	55	14 26	116.2	40	36	28	5 56	9.5	817	845	22	4
22	5	354	46	20	14 25	—115.8	40	42	25	5 57	+9.1	—816	+845	22	5
22	6	355	0	42	14 22	115.5	40	48	22	5 57	8.7	815	845	22	6
22	7	355	15	3	14 21	115.1	40	54	19	5 57	8.3	814	845	22	7
22	8	355	29	22	14 19	114.7	41	0	16	5 57	7.9	812	845	22	8
22	9	355	43	39	14 17	114.4	41	6	13	5 57	7.5	811	845	22	9
22	10	355	57	55	14 16	—114.0	41	12	10	5 57	+7.0	—810	+844	22	10
22	11	356	12	8	14 13	113.7	41	18	8	5 58	6.6	808	844	22	11
22	12	356	26	20	14 12	113.3	41	24	6	5 58	6.2	807	844	22	12
22	13	356	40	30	14 10	112.9	41	30	3	5 57	5.8	805	844	22	13
22	14	356	54	38	14 8	112.6	41	36	1	5 58	5.4	804	844	22	14
22	15	357	8	44	14 6	—112.2	41	41	59	5 58	+5.0	—803	+844	22	15
22	16	357	22	49	14 5	111.8	41	47	57	5 58	4.6	801	844	22	16
22	17	357	36	52	14 3	111.4	41	53	55	5 58	4.2	800	844	22	17
22	18	357	50	54	14 2	111.1	41	59	53	5 58	3.8	799	844	22	18
22	19	358	4	53	13 59	110.7	42	5	51	5 58	3.4	797	844	22	19
22	20	358	18	51	13 58	—110.3	42	11	49	5 58	+3.0	—796	+844	22	20
22	21	358	32	48	13 57	109.9	42	17	47	5 58	2.6	794	844	22	21
22	22	358	46	43	13 55	109.6	42	23	45	5 59	2.2	793	844	22	22
22	23	359	0	36	13 53	109.2	42	29	44	5 58	1.8	791	844	22	23
22	24	359	14	27	13 51	108.8	42	35	42	5 58	1.4	790	844	22	24
22	25	359	28	17	13 50	—108.4	42	41	40	5 59	+1.0	—789	+844	22	25
22	26	359	42	5	13 48	108.0	42	47	39	5 58	0.6	787	844	22	26
22	27	359	55	52	13 47	107.7	42	53	37	5 58	+0.3	786	844	22	27
22	28	000	9	38	13 46	107.3	42	59	35	5 58	—0.1	784	844	22	28
22	29	0	23	22	13 44	106.9	43	5	33	5 59	0.5	783	844	22	29
22	30	0	37	4	13 42	—106.5	43	11	32	5 58	—0.9	—781	+844	22	30
22	31	0	50	45	13 41	106.1	43	17	30	5 58	1.3	780	844	22	31
22	32	1	4	24	13 39	105.7	43	23	28	5 58	1.7	778	844	22	32
22	33	1	18	2	13 38	105.4	43	29	26	5 58	2.0	777	844	22	33
22	34	1	31	38	13 36	105.0	43	35	25	5 59	2.4	775	844	22	34
22	35	1	45	13	13 35	—104.6	43	41	23	5 58	—2.8	—774	+844	22	35
22	36	1	58	46	13 33	104.2	43	47	21	5 58	3.2	772	844	22	36
22	37	2	12	18	13 32	103.8	43	53	19	5 58	3.6	771	844	22	37
22	38	2	25	48	13 30	103.4	43	59	17	5 58	4.0	769	844	22	38
22	39	2	39	18	13 30	103.1	44	5	15	5 58	4.3	768	844	22	39
22	40	2	52	46	13 28	—102.7	44	11	13	5 58	—4.7	—766	+844	22	40
22	41	3	6	12	13 26	102.3	44	17	11	5 57	5.1	765	844	22	41
22	42	3	19	37	13 25	101.9	44	23	8	5 58	5.5	763	844	22	42
22	43	3	33	1	13 24	101.5	44	29	6	5 58	5.9	762	844	22	43
22	44	3	46	23	13 22	101.1	44	35	4	5 58	6.3	760	844	22	44
22	45	3	59	44	13 21	—100.8	44	41	1	5 57	—6.6	—759	+844	22	45
22	46	4	13	4	13 20	100.4	44	46	59	5 58	7.0	757	844	22	46
22	47	4	26	22	13 18	100.0	44	52	56	5 57	7.4	756	845	22	47
22	48	4	39	39	13 17	99.6	44	58	53	5 57	7.8	754	845	22	48
22	49	4	52	55	13 16	99.2	45	4	50	5 57	8.2	753	845	22	49
22	50	5	6	10	13 15	—98.9	45	10	47	5 57	—8.5	—751	+845	22	50
22	51	5	19	23	13 13	98.5	45	16	43	5 56	8.9	750	845	22	51
22	52	5	32	35	13 12	98.1	45	22	40	5 57	9.3	748	845	22	52
22	53	5	45	46	13 11	97.8	45	28	37	5 57	9.7	747	845	22	53
22	54	5	58	55	13 9	97.4	45	34	33	5 56	10.0	745	845	22	54
22	55	6	12	4	13 9	—97.0	45	40	29	5 56	—10.4	—744	+846	22	55
22	56	6	25	11	13 7	96.7	45	46	25	5 56	10.8	742	846	22	56
22	57	6	38	17	13 6	96.3	45	52	21	5 56	11.2	741	846	22	57
22	58	6	51	22	13 5	95.9	45	58	17	5 56	11.5	739	846	22	58
22	59	7	4	26	13 4	95.6	46	4	13	5 56	11.9	737	846	22	59
23	0	7	17	28	13 2	95.2	46	10	9	5 56	12.3	736	846	23	0

Argument.		Longitude of the Nonagesimal.	Correction for—100'' in Obliq.	Altitude of the Nonagesimal.		Correction for—100'' in Obliq.	Corrections for —1000'' in Latitude.		Argument.	
A. R. of Mer.	H. M.						Long.	Alt.	A. R. of Mer.	H. M.
23 0	0	7 17 28	95.2	46 10 9	5 56	—12.3	—736''	+846''	23 0	23 0
23 1	1	7 30 29	94.8	46 16 5	5 55	12.7	734	846	23 1	23 1
23 2	2	7 43 29	94.5	46 22 0	5 55	13.0	733	847	23 2	23 2
23 3	3	7 56 29	94.1	46 27 55	5 54	13.4	731	847	23 3	23 3
23 4	4	8 9 27	93.7	46 33 49	5 55	13.8	730	847	23 4	23 4
23 5	5	8 22 24	93.4	46 39 44	5 54	—14.2	—728	+847	23 5	23 5
23 6	6	8 35 19	93.0	46 45 38	5 54	14.5	726	847	23 6	23 6
23 7	7	8 48 14	92.6	46 51 32	5 54	14.9	725	848	23 7	23 7
23 8	8	9 1 8	92.3	46 57 26	5 54	15.3	723	848	23 8	23 8
23 9	9	9 14 1	91.9	47 3 20	5 54	15.7	722	848	23 9	23 9
23 10	10	9 26 52	91.5	47 9 14	5 53	—16.0	—720	+848	23 10	23 10
23 11	11	9 39 43	91.2	47 15 7	5 53	16.4	718	848	23 11	23 11
23 12	12	9 52 32	90.8	47 21 0	5 53	16.8	717	849	23 12	23 12
23 13	13	10 5 20	90.4	47 26 53	5 53	17.2	715	849	23 13	23 13
23 14	14	10 18 8	90.1	47 32 46	5 52	17.5	714	849	23 14	23 14
23 15	15	10 30 54	89.7	47 38 38	5 52	—17.9	—712	+849	23 15	23 15
23 16	16	10 43 40	89.3	47 44 30	5 52	18.3	711	849	23 16	23 16
23 17	17	10 56 25	88.9	47 50 22	5 52	18.7	709	850	23 17	23 17
23 18	18	11 9 8	88.6	47 56 14	5 51	19.0	707	850	23 18	23 18
23 19	19	11 21 51	88.2	48 2 5	5 51	19.4	706	850	23 19	23 19
23 20	20	11 34 32	87.8	48 7 56	5 51	—19.8	—704	+850	23 20	23 20
23 21	21	11 47 13	87.4	48 13 47	5 51	20.2	703	851	23 21	23 21
23 22	22	11 59 53	87.1	48 19 38	5 51	20.5	701	851	23 22	23 22
23 23	23	12 12 32	86.7	48 25 28	5 50	20.9	699	851	23 23	23 23
23 24	24	12 25 10	86.3	48 31 18	5 50	21.3	698	851	23 24	23 24
23 25	25	12 37 47	85.9	48 37 8	5 50	—21.7	—696	+852	23 25	23 25
23 26	26	12 50 23	85.6	48 42 58	5 50	22.0	695	852	23 26	23 26
23 27	27	13 2 58	85.2	48 48 47	5 49	22.4	693	852	23 27	23 27
23 28	28	13 15 32	84.8	48 54 36	5 49	22.8	691	852	23 28	23 28
23 29	29	13 28 6	84.5	49 0 25	5 49	23.1	690	853	23 29	23 29
23 30	30	13 40 38	84.1	49 6 13	5 48	—23.5	—688	+853	23 30	23 30
23 31	31	13 53 10	83.8	49 12 1	5 48	23.9	686	853	23 31	23 31
23 32	32	14 5 41	83.4	49 17 48	5 47	24.2	685	854	23 32	23 32
23 33	33	14 18 11	83.0	49 23 36	5 48	24.6	683	854	23 33	23 33
23 34	34	14 30 41	82.6	49 29 23	5 47	25.0	682	854	23 34	23 34
23 35	35	14 43 9	82.3	49 35 10	5 47	—25.3	—680	+854	23 35	23 35
23 36	36	14 55 37	81.9	49 40 56	5 46	25.7	678	855	23 36	23 36
23 37	37	15 8 3	81.5	49 46 42	5 46	26.0	677	855	23 37	23 37
23 38	38	15 20 29	81.2	49 52 28	5 46	26.4	675	855	23 38	23 38
23 39	39	15 32 55	80.8	49 58 13	5 45	26.7	673	856	23 39	23 39
23 40	40	15 45 19	80.5	50 3 58	5 45	—27.1	—672	+856	23 40	23 40
23 41	41	15 57 43	80.1	50 9 43	5 45	27.4	670	856	23 41	23 41
23 42	42	16 10 6	79.7	50 15 27	5 44	27.8	669	857	23 42	23 42
23 43	43	16 22 29	79.3	50 21 11	5 44	28.2	667	857	23 43	23 43
23 44	44	16 34 50	79.0	50 26 55	5 44	28.6	665	857	23 44	23 44
23 45	45	16 47 11	78.6	50 32 38	5 43	—28.9	—664	+858	23 45	23 45
23 46	46	16 59 31	78.3	50 38 21	5 43	29.3	662	858	23 46	23 46
23 47	47	17 11 50	77.9	50 44 3	5 42	29.6	661	858	23 47	23 47
23 48	48	17 24 9	77.6	50 49 45	5 42	30.0	659	859	23 48	23 48
23 49	49	17 36 27	77.2	50 55 27	5 42	30.3	657	859	23 49	23 49
23 50	50	17 48 44	76.9	51 1 9	5 42	—30.7	—656	+859	23 50	23 50
23 51	51	18 1 1	76.5	51 6 50	5 41	31.0	654	860	23 51	23 51
23 52	52	18 13 17	76.2	51 12 30	5 40	31.3	652	860	23 52	23 52
23 53	53	18 25 32	75.8	51 18 10	5 40	31.7	651	860	23 53	23 53
23 54	54	18 37 46	75.5	51 23 50	5 40	32.0	649	861	23 54	23 54
23 55	55	18 50 0	75.2	51 29 29	5 39	—32.3	—648	+861	23 55	23 55
23 56	56	19 2 13	74.9	51 35 8	5 39	32.7	646	861	23 56	23 56
23 57	57	19 14 26	74.5	51 40 47	5 38	33.0	644	862	23 57	23 57
23 58	58	19 26 38	74.2	51 46 25	5 37	33.3	643	862	23 58	23 58
23 59	59	19 38 49	73.8	51 52 2	5 38	33.7	641	862	23 59	23 59
0 0	0	19 51 0	73.5	51 57 40	5 38	34.0	639	863	0 0	0 0